The Johns Hopkins University

Conferring of Degrees

At the Close of the
110th Academic Year
May 30, 1986

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ORDER OF PROCESSION

MARSHALS

Edward J. Bouwer
Paul R. Daniels
Andrew S. Douglas
Bruce Hamilton
Martha Hill
Susan D. Horn
Jean Eichelberger Ivey
Marion Panyan
Owen M. Phillips
Fred S. Schock
Henry Seidel
Nathaniel B. Thayer
James C. Walker
M. Gordon Wolman

THE GRADUATES

*

MARSHALS

Frederic Davidson
Jerome B. Schneewind

THE FACULTIES

*

MARSHALS

Marc D. Donohue
Lloyd Armstrong

THE DEANS
MEMBERS OF THE SOCIETY OF SCHOLARS
OFFICERS OF THE UNIVERSITY
THE TRUSTEES

*

CHIEF MARSHAL

Paul R. McHugh

THE CHAPLAINS
THE HONORARY DEGREE CANDIDATES
THE PROVOST OF THE UNIVERSITY
THE CHAIRMAN OF THE BOARD OF TRUSTEES
THE PRESIDENT OF THE UNIVERSITY

*

ORDER OF EVENTS

STEVEN MULLER
President of the University, presiding

* * *

PRELUDE

Colonel Bogie March
KENNETH ALFORD
(1881-1945)

Homage March
EDVARD GRIEG
(1843-1907)

Sonata 22
JOHANN PEZEL
(1639-1694)

Contrapunctus III
J. S. BACH
(1685-1750)

Fanfare from LaPerie
PAUL DUKAS
(1865-1935)

*

PROCESSIONAL

The audience is requested to stand as the Academic Procession moves into the area and to remain standing after the Invocation

Marches from Belshazzar, Floridante, Ezio, Judas Maccabaeus, Saint Cecilia's Day and Rinaldo

GEORG FRIEDRICH HANDEL
(1685-1759)

*

THE PRESIDENT'S PROCESSION

Fanfare
WALTER PISTON
1894-1976)

March from Scipione
GEORG FRIEDRICH HANDEL
(1685-1759)

*

INVOCATION

GRETCHEN VAN UTT
Chaplain
The Johns Hopkins University

*

THE NATIONAL ANTHEM

*

GREETINGS

GEORGE G. RADCLIFFE
Chairman of the Board of Trustees

*

PRESENTATION OF NEW MEMBERS OF THE SOCIETY OF SCHOLARS

Moshe Abeles
Haroutune Armenian
Ernesto Carafoli
Denton A. Cooley
Gilles Marc Corcos
Milton Thomas Edgerton
Wayne A. Hendrickson
Geogeanna Seegar Jones
Howard Wilbur Jones
Robert G. Petersdorf
Raymond Seltser
Morton M. Weber
William O. Williams

SCHOLARS PRESENTED BY RICHARD LONGAKER
Provost of the University

*

THE FESTIVAL BRASS

Ellery B. Woodworth, conductor
Fanfare for the Common Man
Aaron Copland
(1900-)

*

CONFERRING OF HONORARY DEGREES

Alonzo G. Decker, Jr.
Rhoda M. Dorsey
William N. Mann *
Eric R. Kandel

PRESENTED BY RICHARD LONGAKER

* Presented *in absentia* and accepted by
Dr. Richard S. Ross

*

ADDRESS

Eric R. Kandel
University Professor, Columbia University

*

CONFERRING OF DEGREES ON CANDIDATES

BACHELORS OF ARTS

Presented by

GEORGE W. FISHER

Dean, School of Arts and Sciences

* * *

BACHELORS OF SCIENCE IN BIOMEDICAL ENGINEERING
BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING
BACHELORS OF SCIENCE IN CIVIL ENGINEERING
BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING
BACHELORS OF SCIENCE IN ENGINEERING MECHANICS
BACHELORS OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING

BACHELORS OF SCIENCE IN MATHEMATICAL SCIENCES
BACHELORS OF ARTS
BACHELORS OF CIVIL ENGINEERING
BACHELORS OF ELECTRICAL ENGINEERING
BACHELORS OF INDUSTRIAL ENGINEERING
BACHELORS OF MECHANICAL ENGINEERING

Presented by

V. DAVID VANDELINDE

Dean, G.W.C. Whiting School of Engineering

* * *

PERFORMERS CERTIFICATES
BACHELORS OF MUSIC

Presented by

ROBERT O. PIERCE

Director, Peabody Conservatory of Music

* * *

BACHELORS OF SCIENCE

Presented by

CAROL J. GRAY

Dean, School of Nursing

* * *

ASSOCIATES OF ARTS
ASSOCIATES OF SCIENCE
BACHELORS OF SCIENCE

Presented by

STANLEY C. GABOR

Dean, School of Continuing Studies

* * *

MASTERS OF SCIENCE
MASTERS OF EDUCATION
MASTERS OF LIBERAL ARTS
MASTERS OF ADMINISTRATIVE SCIENCE
CERTIFICATES OF ADVANCED STUDY

Presented by

STANLEY C. GABOR

Dean, School of Continuing Studies

* * *

PROFESSIONAL STUDIES CERTIFICATES
MASTERS OF MUSIC
ARTISTS DIPLOMAS

Presented by
ROBERT O. PIERCE
Director, Peabody Conservatory of Music

* * *

MASTERS OF SCIENCE
MASTERS OF HEALTH SCIENCE
MASTERS OF PUBLIC HEALTH

Presented by
DONALD A. HENDERSON
Dean, School of Hygiene and Public Health

* * *

MASTERS OF INTERNATIONAL PUBLIC POLICY
MASTERS OF ARTS IN INTERNATIONAL AFFAIRS
MASTERS OF ARTS

Presented by
GEORGE R. PACKARD
Dean, School of Advanced International Studies

* * *

MASTERS OF ARTS

Presented by
RICHARD S. ROSS
Dean, School of Medicine

* * *

MASTERS OF CIVIL ENGINEERING
MASTERS OF SCIENCE
MASTERS OF SCIENCE IN ENGINEERING
MASTERS OF ARTS

Presented by
V. DAVID VANDELINDE
Dean, G. W. C. Whiting School of Engineering

* * *

MASTERS OF ARTS

Presented by

GEORGE W. FISHER

Dean, School of Arts and Sciences

* * *

DOCTORS OF EDUCATION

Presented by

STANLEY C. GABOR

Dean, School of Continuing Studies

* * *

DOCTORS OF MUSICAL ARTS

Presented by

ROBERT O. PIERCE

Director, Peabody Conservatory of Music

* * *

DOCTORS OF SCIENCE
DOCTORS OF PUBLIC HEALTH
DOCTORS OF PHILOSOPHY

Presented by

DONALD A. HENDERSON

Dean, School of Hygiene and Public Health

* * *

DOCTORS OF PHILOSOPHY

Presented by

GEORGE R. PACKARD

Dean, School of Advanced International Studies

* * *

DOCTORS OF MEDICINE
DOCTORS OF PHILOSOPHY

Presented by

RICHARD S. ROSS

Dean, School of Medicine

* * *

CONFERRING OF DEGREES ON CANDIDATES
continued

DOCTORS OF PHILOSOPHY

Presented by

V. DAVID VANDELINDE
Dean, G. W. C. Whiting School of Engineering

* * *

DOCTORS OF PHILOSOPHY

Presented by

GEORGE W. FISHER
Dean, School of Arts and Sciences

* * *

STATEMENT TO THE GRADUATES

STEVEN MULLER
President of the University

*

BENEDICTION

CLYDE R. SHALLENBERGER
Director
The Chaplaincy Service
The Johns Hopkins Hospital

*

RECESSIONAL

Trumpet Voluntary
JEREMIAH CLARKE
(1673-1707)

Trumpet Tune
HENRY PURCELL
(1659-1695)

The audience is requested to remain standing after the Benediction until the principals, officials, members of the faculties, and graduates have left the area.

JOHNS HOPKINS SOCIETY OF SCHOLARS

The Johns Hopkins Society of Scholars was created on the recommendation of former President Milton S. Eisenhower and approved by the University Board of Trustees on May 1, 1967. The Society—the first of its kind in the nation—inducts former postdoctoral fellows at Johns Hopkins who have gained marked distinction in their fields of physical, biological, medical, social or engineering sciences, or the humanities, and for whom at least five years have elapsed since their postdoctoral work. The Committee of the Johns Hopkins Society of Scholars, whose members are equally distributed among the academic divisions, elects the Scholars from the candidates nominated by the academic divisions having programs for postdoctoral fellows. Each division has the privilege of nominating up to three candidates for each election year. The Scholars are invested during the Commencement ceremony, the Commemoration Day ceremony, or on some similar occasion. They are presented with a diploma and a medallion with a black and gold ribbon. The Scholars wear the medallion around the neck, and they also wear academic costumes.

Today we honor 13 new members who have been elected this year to the Johns Hopkins Society of Scholars.

Dr. Moshe Abeles is visiting professor in the Department of Physiology at the University of Pennsylvania and chairman of the Israel Center for Psychobiology at the Hadassah Medical School in Jerusalem. He was a postdoctoral fellow in the Department of Biomedical Engineering from 1966 to 1968, years which set the course of a career marked by international distinction in teaching and in neuroscience research. He is widely known for study of the neocortex and local circuits in the brain, with his 1982 monograph on the latter subject representing exemplary work in the field. He has received prizes for papers on EEG synchronizing and desynchronizing neurons and for work on computer aided analysis of nerve cell activity. He has trained a number of talented graduate students, including two who followed his path in postdoctoral study at Johns Hopkins.

Dr. Haroutune Krikor Armenian is dean of the Faculty of Health Sciences at the American University of Beirut in Lebanon. He holds a medical degree from the institution and earned both master's and doctoral degrees at the Johns Hopkins School of Hygiene and Public Health. He was a postdoctoral fellow in the School's Department of Epidemiology from 1971 to 1974. His creative and imaginative research in widely ranging areas of epidemiology has earned him recognition as one of the leading authorities on public health problems and health care systems in the Middle East. Not the least of his achievements has been his ability to sustain an extraordinarily productive level of research and administrative leadership in Beirut through recent times which have been marked by extreme chaos and uncertainty.

Dr. Ernesto Carafoli is professor of biochemistry at the Swiss Federal Institute of Technology in Zurich and currently a Fogarty Scholar-in-Residence at the National Institutes of Health. He was a postdoctoral fellow in the Department of Physiological Chemistry at the School of Medicine from 1963 to 1965. He is recognized as one of the world's foremost experts on calcium metabolism in both normal and pathological tissues and on the various roles which calcium plays in biological systems. He is particularly known for his research on the role of mitochrondria in calcium metabolism, having helped identify both uptake and exit pathways for calcium in this organelle. He is also a widely recognized authority on the bioenergetics of normal and pathological states, and has been instrumental in organizing meetings throughout the world on bioenergetics and calcium metabolism.

Dr. Denton A. Cooley is surgeon-in-chief at the Texas Heart Institute in Houston. He obtained his M.D. degree from Johns Hopkins in 1944 and served as a surgical intern and resident in surgery between 1945 and 1950. During that time, he worked under the noted surgeon, Dr. Alfred Blalock, and became part of the small group of skilled practitioners who led the development of cardiac surgery in the United States and internationally. One of his later achievements was the development of the Texas Heart Institute, known around the world as one of the leading facilities of its kind. Among the honors he has received are the nation's highest civilian award, the Presidential Medal of Freedom, as well as the Theodore Roosevelt Award and the Rene Leriche Prize. He also holds the Distinguished Alumnus Award of Johns Hopkins University, which he continues to serve as a member of the Board of Trustees.

Dr. Gilles Marc Corcos is professor of fluid mechanics at the University of California at Berkeley. He was a postdoctoral fellow in the Department of Aeronautics at the School of Engineering from 1952 to 1954. His subsequent work was distinguished by a creative combination of theoretical and experimental studies in fluid mechanics, and he was a pioneer in measuring the pressure fluctuations and acoustical properties of turbulent boundary layers. His more recent work has focused on mathematical modeling of turbulent shear layers. His contributions have been characterized by unusually critical scrutiny of experimental techniques and by insightful mathematical modeling. He has served the Office of Naval Research as liaison scientist in Europe and was a visiting professor at the University of Grenoble, where he earned the *Docteur d'Etat en Sciences Physiques.*

Dr. Milton Thomas Edgerton has been plastic surgeon-in-chief at the University of Virginia Medical Center in Charlottesville since 1970. He earned the M.D. at Johns Hopkins in 1944, was resident in surgery from 1949 to 1951, and served on the full-time faculty of the School of Medicine from 1951 until 1970. His work over the years has done much to advance the field of reconstructive surgery necessitated by such conditions as birth defects, war wounds, cancer, and burns. In 1964, he opened the first interdisciplinary Gender Identity Clinic to offer surgery to transsexuals in this country. His skill and dedication have been recognized by his election to leadership positions in such prestigious organizations as the American Surgical Association, the Society of University Surgeons, the American College of Surgeons, the American Association of Plastic Surgeons, and the American Board of Plastic Surgery.

Dr. Wayne A. Hendrickson is professor of biochemistry and molecular biophyics at Columbia University. He earned a doctoral degree in biophysics at Johns Hopkins in 1968 and was a postdoctoral fellow in the Department of Biophysics in 1968-1969. He spent 15 years as a research biophysicist at the Naval Research Laboratory before assuming his present position in 1984. In a highly productive research career, he has made important advances in determining the structure of biologically important molecules through x-ray crystallography and magnetic resonance techniques. He has also made valuable contributions to the development of improved analysis techniques used in crystallography. Among many honors, he holds the Navy's Meritorious Civilian Service Award and is a Fellow of the American Association for the Advancement of Science.

Dr. Georgeanna Seegar Jones is professor of obstetrics and gynecology at Eastern Virginia Medical School in Norfolk. She earned an M.D. from the Johns Hopkins School of Medicine in 1936 and was a postdoctoral fellow from 1936 to 1939. For almost 40 years following, she was in charge of the Gynecological Endocrine Clinic at the Johns Hopkins Hospital and professor in the School of Medicine. Throughout that period, her work was complemented by that of her husband, Dr. Howard W. Jones, whom she married in 1940. In 1978, they moved to Virginia and embarked on a second illustrious career which resulted in the establishment of the first major in vitro fertilization program in the United States. For this, they have received international acclaim and serve as leading spokespeople for the procedure throughout the world.

Dr. Howard Wilbur Jones is professor of obstetrics and gynecology at Eastern Virginia Medical School in Norfolk. A 1935 graduate of the Johns Hopkins School of Medicine, he was a resident in gynecology at the Johns Hopkins Hospital from 1935 to 1937. Like his wife, Georgeanna S. Jones, he served the institution with distinction, clinically and administratively, for many years. He attained the rank of professor in 1967 and was named emeritus professor in 1976. As the second member of a world famous team, he concentrated on the surgical aspects of gynecology, with special focus on aspects of malformation and cancer. In his present work, he joins his wife in furthering the technique of in vitro fertilization at what has become one of the best known and most highly successful facilities of its kind in the world.

Dr. Robert G. Petersdorf is dean of the School of Medicine and vice chancellor for the health sciences at the University of California at San Diego. After earning an M.D. at Yale University, he was a research fellow in the Department of Medicine at Johns Hopkins from 1955 to 1957. A highly respected figure in internal and academic medicine, he has achieved distinction in research, teaching, and administration. He has served as president of the Association of American Physicians, the American College of Physicians, and the Association of Professors of Medicine, and is a member of the National Academy of Sciences—Institutes of Medicine. He has also been a forceful defender and critic of the academic medical establishment, stressing the need to adjust to changing societal pressures while remaining true to the essential mission of advancing knowledge and maintaining rigorous standards of medical education.

Dr. Raymond Seltser is dean of the Graduate School of Public Health at the University of Pittsburgh. He holds an M.D. degree from Boston University and was a postdoctoral fellow in the Department of Epidemiology at the School of Hygiene and Public Health from 1955 to 1957. He remained at the School, serving as associate dean for nine years as well as associate professor of epidemiology and deputy director of the Johns Hopkins Oncology Center. His entire career has been marked by productive application of epidemiologic science to a wide array of health problems, including influenza, pneumonia, cerebrovascular disease, and radiation hazards to radiologists and other physicians. He is also nationally recognized for his leadership in public health education. His service to numerous professional organizations includes chairmanship of the Epidemiology Section Council of the American Public Health Association.

Dr. Morton M. Weber is professor and chairman of the Department of Microbiology at the St. Louis University School of Medicine. He holds an Sc.D. degree from the School of Hygiene and Public Health and was a postdoctoral fellow at the University's McCollum-Pratt Institute from 1953 to 1956. He is an internationally recognized authority on electron transport in biologically important materials and on the effect of light and other regulators in electron transport and energy metabolism. A combination of his studies in bioenergetics led to an understanding of the mode of action of the anti-tubercular drug, isoniazid, and his work is contributing to the elucidation of new drugs for the treatment of tuberculosis and possibly leprosy. He has served as secretary, vice chairman, and chairman of the Physiology Division of the American Society for Microbiology.

Dr. William O. Williams is professor and associate head of the Department of Mathematics at Carnegie-Mellon University. He received a doctorate in applied mathematics from Brown University in 1967 and was a postdoctoral fellow in the Department of Mechanics at Johns Hopkins in 1969-1970. An authority on the mechanics and thermodynamics of mixtures, he has published numerous research papers, mainly on the foundations of continuum thermomechanics. In 1978, he was a Senior Fulbright-Hays Fellow at the University of Pisa, and has been an invited lecturer at the University of Bucharest, the State University of New York at Buffalo, the University of Minnesota, and others. He is a consultant to the Los Alamos National Laboratory and editor of an international series of monographs for Martinus Nijhoff Publishers in Holland.

Citation Read by

RICHARD P. LONGAKER

in Presenting

ALONZO GALLOWAY DECKER, JR.

for the Degree of Doctor of Humane Letters

May 30, 1986

Businessman, civic leader, conservationist and friend, you have made immeasurable contributions to this community, this State, and this University.

As chief executive of the Black & Decker Corporation, the company that your father founded, you presided over an era of unprecedented growth. It was through your efforts that Black & Decker attained a position of worldwide prominence. Now, as honorary board chairman and chairman of the executive committee, you have entered your seventh decade of company service.

Your skill as an entrepreneur is matched by your selfless dedication to community, state, and nation. But, especially, since you began serving as a university trustee in 1968, your counsel and judgment have guided the growth of this institution. As chairman of the Hopkins Hundreds Campaign, you contributed in so many ways to the success of that effort. Today, as a trustee emeritus, you continue to inspire us with your generosity of spirit and commitment to excellence.

Few individuals are endowed with your talents, and few have given more of themselves to this community and to the University. Alonzo Galloway Decker, Jr., The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

Citation Read by

RICHARD P. LONGAKER

in Presenting

RHODA M. DORSEY

for the Degree of Doctor of Humane Letters

May 30, 1986

A recognized leader among the nation's institutions of higher education, you today are President of a college with which Johns Hopkins has had long and happy relationships.

You first came to Goucher College as an assistant professor in 1954. Twenty years later, your intellect, your wit, and your managerial skills made you an obvious choice to become Goucher's first woman president. You immediately set forth to restore the college's financial stability, succeeding so well that today Goucher's endowment is the second highest among Maryland's independent colleges.

As the educational needs of women have changed, you have responded with flexibility and creativity, instituting innovative programs. Moreover, as the Goucher community has faced the prospect of coeducation, you have guided the ensuing discussions with intelligence and sensitivity.

You sit on the boards of major corporations, and the leadership skills you have demonstrated at Goucher have also benefited numerous academic and civic organizations.

Rhoda M. Dorsey, for your enormous contributions to education and to this community, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by

RICHARD P. LONGAKER

in Awarding *in absentia*

WILLIAM NEVILLE MANN

the Degree of Doctor of Humane Letters

May 30, 1986

Physician of eminence, scholar of distinction, and teacher of merit, you have influenced countless young doctors by your teaching and erudition, by the high standards that you set for the care of the sick, and by your example.

After your career was interrupted by service in the Second World War, you returned to serve on the staff of Guy's Hospital. You became the first Director of the Department of Medicine, and in 1963 became Senior Physician to the Hospital. At the Royal College of Physicians, London, you became Senior Censor and subsequently served as Senior Vice-President of the College. You have held the appointment of Physician to Her Majesty's Household and later as Physician to the Queen. Your writings are as distinguished as your medical service, and your book, *The Medical Works of Hippocrates,* is a classic example of your scholarly art.

You were one of the physicians to visit The Johns Hopkins Hospital in the early days of the exchange of staff that occurs between Guy's Hospital and Johns Hopkins. Your continuing goodwill has helped to foster the special relations that have existed between these two great institutions for the past forty years.

William Neville Mann, in recognition of your own accomplishments and those of the hospital you have served so well, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by

RICHARD P. LONGAKER

in Presenting

ERIC RICHARD KANDEL

for the Degree of Doctor of Humane Letters

May 30, 1986

Scientist and educator, you have profoundly changed our understanding of learning and memory, linking molecular events in the brain with mental functions.

Your interdisciplinary research has displayed a similar synthesis, combining behavioral analysis with analysis at the cellular, molecular, and genetic levels. With characteristic insight, you realized that the simple nervous system of the sea snail *Aplysia* offered possibilities for elucidating the mechanisms of learning, properties that should hold for all animals, including humans. Your studies of *Aplysia's* defensive withdrawal reflex provided the first demonstration of a complete pathway from stimulus, through neural activity, to behavior. You further showed that learning modifies behavior by regulating the strength of electrical and chemical signals at the connecting points between nerve cells.

In building this vital bridge between the sciences of cell biology and behavior, you have opened doors that promise to reveal the biological mechanisms underlying all mental activity—thus holding out hope for more effective treatment of learning disorders, memory impairment, and many psychiatric illnesses.

Eric Richard Kandel, for your pioneering research into the still mysterious world of mind and brain, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

THE UNIVERSITY MACE

The University Mace carried by the Chief Marshal, Dr. Paul R. McHugh, was first used at the 1954 Commemoration Day Exercises. Eight symbols are hand wrought in sterling silver on an ebony staff. The symbols represent man's cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

THE PRESIDENTIAL INSIGNIA

University President Steven Muller is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of each of the ten Johns Hopkins University Presidents are engraved on the faces of ten of the links. On the reverse are engraved the names and dates of office of each President. Ten blank links for future use are included. The University Seal completes the design.

ACADEMIC DRESS

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round, but has changed to the varieties that we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms worn through the slits in the elbows of the sleeves. The Doctor's gown, also worn open, has full, bell-shaped sleeves with three horizontal bars stitched across the upper arm. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are of the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one half feet long. The Doctor's hood is four feet long, of fuller shape and rounded at the base.

The hood is bordered with velvet, the color of which indicates the field of study in which the degree was earned:

Dark blue — Philosophy
Light blue — Education
Orange — Engineering
Gold-yellow — Science
Green — Medicine
Salmon pink — Public Health
Pink — Music
Purple — Laws
White — Arts and Letters

The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold chevron — Johns Hopkins
Light blue, white chevron — Columbia
Dark blue — Yale
Blue with white chevron — Duke
Dark blue, two orange chevrons — Illinois
Light blue, two white chevrons — North Carolina
Old gold, maroon chevron — Minnesota
Old gold — Iowa
Gold, blue chevron — California
Gold — Virginia
Purple, gold chevron — Northwestern
Carnegie Tartan — Carnegie-Mellon
Purple — New York University
Bright red — Wisconsin
Plum, with scarlet — London
Maroon — Chicago
Crimson — Harvard
Carnelian, two white chevrons — Cornell
Cardinal — Stanford
Red, tri-chevron in center — Heidelberg
Dandelion yellow — Michigan
Maize, azure blue chevron — Sorbonne
Yellow and white — Rochester

THE UNIVERSITY MOTTO

Veritas vos liberabit.

The truth shall make you free

—St. John 8:32

AWARDS

IN THE SCHOOLS OF ARTS AND SCIENCES, ENGINEERING AND MEDICINE

LOUIS SUDLER PRIZE IN THE ARTS

for excellence in the visual or performing arts

Awarded to KAREN KING

IN THE SCHOOLS OF ARTS AND SCIENCES AND ENGINEERING

AMERICAN CHEMICAL SOCIETY, MARYLAND SECTION STUDENT AWARD

for outstanding scholastic achievement in chemistry and related disciplines by an undergraduate

Awarded to ELLEN SHULMAN

LOUIS AZRAEL FELLOWSHIP IN COMMUNICATIONS

for demonstrated excellence in a field of mass communications

Awarded to SUJATA CHRIS BANERJEE

WILLIAM H. BAIN AWARD

for outstanding achievement by an undergraduate in the Writing Seminars

Awarded to KEVIN JOHN SOTTAK

BIOMEDICAL ENGINEERING AWARD

for outstanding effort in research in Biomedical Engineering

Awarded to ROGER J. HAJJAR
JEANE-MARIE S. ROBERT
DAVID M. PRESSEL

ALEXANDER BUTLER PRIZE

for the best research paper by a first year graduate student in History

Awarded to ELIZABETH MANCKE

EUGENIO AND PATRICIA CASTILLO AWARD

to the best first or second year graduate student in Political Economy

Awarded to NANCY WAGNER

G. STANLEY HALL PRIZE

for outstanding achievement by an undergraduate in Psychology

Awarded to LISA IJIRI

THE MAX HOCHSCHILD FUND

The prize is awarded annually to the undergraduate student in Business and Industrial Management who has shown the greatest promise and proficiency in this field and is awarded to

PETER C. IACONO

THE 3 ARTS CLUB OF HOMELAND AWARD

for outstanding achievement in the Writing Seminars

Awarded to PETER WILLIAM OEHLKERS

AT&T INFORMATION SYSTEMS—WILLIAM HUGGINS AWARD

for outstanding service and academic achievement by a senior and junior in Electrical Engineering and Computer Science

Awarded to DENNIS ALLEN BURTON
DAVID HAROLD TERRY

ADOLF KATZENELLENBOGEN MEMORIAL PRIZE

for outstanding work in Art History

Awarded to NANCY ELLEN FORGIONE

ARTHUR KOUGUELL PRIZE

to the outstanding undergraduate major in History

Awarded to GORDON JOHNATHAN LEWIS

MARTIN G. LARRABEE AWARD

for meritorious research conducted by senior undergraduates in Biophysics

Awarded to MARK CHARLES HANNIBAL

ERNEST M. MARKS AWARD

in recognition of excellence in instruction in Chemistry

Awarded to PETER S. COOPER
CARL B. FRIEDHOFF

PAUL A. McCOY PRIZE

for the most distinguished masters essay in Political Science

Awarded to BONNIE HONIG

ROBERT S. PONO, SR. ACHIEVEMENT AWARD

to the graduating senior in Materials Science who best exemplifies Professor Pond's commitment to scholarly and humane values.

Awarded to CAROL A. LEBOWITZ

SARAH & ADOLPH ROSEMAN ACHIEVEMENT AWARD

in recognition of outstanding accomplishment in Chemistry

Awarded to BETH A. DOMBROSKI
JOHN M. WETZEL

ROYAL SOCIETY OF ARTS SILVER MEDAL

for distinguished achievement by an undergraduate in the application of art or science to the field of commerce or industry, and for significant participation in student activities.

Awarded to CAROL ANN LEBOWITZ

JULIAN C. STANLEY AWARD

for the undergraduate psychology major who most closely approximates Dr. Stanley's personal and professional standard of excellence

Awarded to SUSAN DAUBER

JULIUS TURNER PRIZE

for the most distinguished senior thesis in Political Science

Awarded to JANICE RAYE WINGO

JOHN BOSWELL WHITEHEAD AWARD

for outstanding achievements by an undergraduate in Electrical Engineering and Computer Science

Awarded to JOHN FRANCIS KUTCHER

LOY WILKINSON AWARD

for a demonstrated record of academic excellence, leadership, and service in Chemical Engineering

Awarded to MARCIA LACRONE

IN THE PEABODY CONSERVATORY OF MUSIC

THE HAROLD RANDOLPH PRIZE

Awarded to PAUL GROVE

THE MARYLAND STATE TEACHERS ASSOCIATION PRIZE

Awarded to MARGARET LYLE DEMAREST-FEW

THE EDITH AND IRENE ASHWORTH PRIZE

Awarded to KAREN LYNN SMALL

THE BALTIMORE MUSIC CLUB AWARD IN ACCOMPANYING

MARK MARKHAM

THE PAULINE FAVIN MEMORIAL AWARD IN PIANO

KRISTIE RENEÉ BORN

OTTO ORTMANN AWARD IN COMPOSITION

J. MARK STAMBAUGH

THE JOSEPH KASPER AWARD IN VIOLIN

MARC A. RAMÍREZ

THE ZAIDEE T. THOMAS AWARD IN VOICE

MARIA TEGZES

THE ZAIDEE T. THOMAS INSTRUMENTALIST AWARD

ROBERT DAVID LAUVER
LOU ANN PFEIL

THE GEORGE CASTELLE MEMORIAL AWARD IN VOICE

CATHERINE LOUISE THORPE

IN THE SCHOOL OF NURSING

ROBERT G. MERRICK AWARD

to a student demonstrating outstanding leadership in the field of nursing.

Awarded to BERNARD V. KEENAN

RESEARCH AWARD

to a student demonstrating intellectual curiosity and creativity in nursing research.

Awarded to CLARE M. BLAU

MARY AND GRAINGER MARBURG AWARD

in recognition of a student who consistently exhibits outstanding clinical nursing expertise.

Awarded to BARBARA W. SCHWEIZER

ACADEMIC EXCELLENCE AWARD

to a student whose academic performance has been judged to be outstanding.

Awarded to BARBARA W. SCHWEIZER

ELEANOR WADE CUSTER AWARD

to a student who most successfully combines commitment to the nursing profession with senitivity to one' fellow man.

Awarded to CECIL L. TAYLOR

IN THE SCHOOL OF CONTINUING STUDIES

DELTA SIGMA PI SCHOLARSHIP KEY

in the Division of Administration and Business for the highest average in the undergraduate programs

Awarded to Bridget Dukehart

EDWARD J. STEGMAN, C. P. A., MEMORIAL AWARD

in the Division of Administration and Business for excellence in the study of Administrative Science at the graduate level

Awarded to Joanna Woo Allen
Michael Paul Caldwell
Sheryl Renee Conwell
Eric William Gregory
Dawn Susan Hedley
Louis Henry Kirstner, Jr.
Jenny Goodman Morgan

WALL STREET JOURNAL STUDENT ACHIEVEMENT AWARD

in the Division of Administration and Business for outstanding scholarship in the undergraduate programs and exceptional promise of future success

Awarded to Gloria Bryan

IN THE SCHOOL OF MEDICINE

HENRY STRONG DENISON SCHOLARSHIP

for excellence in biomedical research

Awarded to

Gregory Goodwin (1983-84)
Catherine Ruth Hoff (1983-84)
Julie Zrubek Livingston (1985-86)
Catherine Anna Marco (1983-84)
Russell Louis Margolis (1982-83 & 1983-84)
Kenneth James Pienta (1983-84)
Mario David Saltarelli 1983-84)

SANDOZ AWARD

for excellence in the field of Pharmacology

Awarded to Jonathan Allen Javitch

LAUREL AND CLARENCE H. KOENNECKE AWARD

for most promise in the surgical field of gynecology

Awarded to Arlene Joan Morales

THE FRANKLIN PAINE MALL SCHOLARSHIP IN ANATOMY

in recognition of outstanding accomplishment

Awarded to Christopher Guerin
Abraham Michael Lincoff
Lois Ellen Nielsen

THE PAUL EHRLICH AWARD IN CLINICAL INVESTIGATION

in recognition of outstanding research accomplishment

Awarded to William Seth Aronstein

THE PAUL EHRLICH GRADUATE STUDENT AWARD

Awarded to Raimond L. Winslow

THE PAUL EHRLICH AWARD FOR BASIC SCIENCE INVESTIGATION

Awarded to Rosario Richard Trifiletti

HAROLD LAMPORT BIOMEDICAL RESEARCH SCHOLAR

for meritorious research completed during medical training

Awarded to Emily Lucy Germain
Rodney Scott Owen

CIBA AWARD FOR OUTSTANDING COMMUNITY SERVICE

Awarded to Travis Case Holcombe

THE WILLIAM L. STRAUSS, JR. SCHOLARSHIP AWARD

for outstanding research in Cell Biology and Anatomy

Awarded to Kevin Lawrence Gardner

MICHAEL A. SHANOFF RESEARCH AWARD

for significant research contribution in the medical sciences

Awarded to

Stephen C. Cannon (1985)
Hans Joaquim Prochaska (1986)
Stephen Mark Strittmatter (1985)

IN THE SCHOOL OF HYGIENE AND PUBLIC HEALTH

ALUMNI ASSOCIATION SCHOLARSHIP AWARD

to a student of outstanding promise

Awarded in 1981 to Lorraine Litwinski Cameron
Awarded in 1983 to Joanne F. Dorgan

FREDERIK B. BANG AWARD FOR STUDENT RESEARCH

for an outtanding research idea in the area of Pathobiology

Awarded in 1985 to Leslie A. Leonard

RUTH FREEMAN AWARD

to a nurse deemed to have produced the outstanding doctoral thesis

Awarded to Jane McAnany Jacobson
Janet Lee Stanford

JOHN C. HUME AWARD

for significance of doctoral research in
the Department of Health Policy and Management

Awarded to C. Alan Lyles

JOHN C. HUME AWARD

to a Master of Public Health graduate
for academic excellence and professional promise

Awarded to Robert William Kneller

CORNELIUS W. KRUSE AWARD

for the outstanding dissertation in Environmental Health

Awarded to Jeffrey Vaughn Johnson

LONG AND WIDMONT MEMORIAL FOUNDATION AWARD

for academic achievement

Awarded in 1983 to Joseph Geraldo Jacangelo

IN THE SCHOOL OF ADVANCED INTERNATIONAL STUDIES

WILLIAM C. FOSTER AWARD

to a second year student for sound scholarship and a record of leadership
and distinguished service to SAIS exemplary of the high qualities
of integrity, loyalty and ability admired in Mr. Foster

Awarded to Christine Beer Braun
Brewer Stevenson Stone
Chuong Tran-Si

CHRISTIAN A. HERTER FELLOWSHIP

to the member of the second year class with the most outstanding
record during the first year

Awarded to Wei-Cheng Wang

SAIS STUDENT POLICY FORUM PRIZE

to that student who by written and oral argument has made the most
cogent presentation on an international policy issue

Awarded to Anne Wilson Mitchell

HONOR SOCIETIES

PHI BETA KAPPA

From the Junior Class in the School of Arts and Sciences

Susan Bernofsky
Andrea Bruce
Michael Gatzke
Amit Gupta
Gregory Hung
Alfonso Iasiello
Crystal O'Bryan
Sanjiv Patel

From the Senior Class in the School of Arts and Sciences
Elected in 1984-85

Kathleen Susan Faust
Allen David Hamdan
Mark Charles Hannibal
Peter Charles Iacono
Laurance Wing-Hong Kam
Elizabeth Sharon Kelly
Hyung Min Lim
Sheri Lynn Nimetz
Ronit Simantov

Elected in 1985-86

Stephen Antrobus
Sandra Babcock
Michael Brown
Linda Carruba
Russ Carstens
Stefano Cazzaniga
Martin Citardi
Pilar Cuesta
Susan Dauber
Frank DelVecchio
Tamar Donovan
Ronald DeMatteo
John Drago
Dan Edidin
Louise Ferretti
David Fry
Joan Go
Robin Gugenheim
Ava Hansen
Jay Kaufman
Richardo Metz
Vinod Misra
John Myseros
Krishna Niyogi
Peter Oehlkers
Christopher Padilla
Leah Rosenberg
George Rudkin
Anthony Russo
Jerry Schexnayder
Andrew Schulick
Tammy Smecker
Neil Worrall

From the School of Medicine

Christopher Guerin

From the School of Hygiene and Public Health

Jacqueline Agnew
Muin J. Khoury

TAU BETA PI

National Engineering Honor Society

From the Junior Class in the G.W.C. Whiting School of Engineering

Michele Julia Andrys
Claire Ann Battistella
Tomasz Michal Beer
Kurt R. Budelmann
Lawrence Noah Eisenman
Robert Charles Gensure
Douglas Gordon Gibson
Susan Gail Gorozdos
Gary Andrew Henry
Khalil Ahmed Jaoumi
Stanley Timothy Lau
Elisabeth M. Louwers
J. Jeremy Rice
Luchy Daniel Roteliuk
Scott H. Seidman
Anne K. Skaja
Khaled Aly Tawansky
David H. Terry

From the Senior Class in the G.W.C. Whiting School of Engineering

Elected in 1984-85

James Matthew Burck
Gregory Lee Burks
Dennis Allen Burton
James Thomas Cardwell
Ga-Yin Chan
John McCann Cunniff
James Theodore Everett
Roger Joseph Hajjar
Charn Kiatboonsri
Marcia Saralene Lecrone
Sung Moo Lee
Laurence E. Mermelstein
Ayesa Nazneen Mian
Christian Victor O'Keefe
Santiago Perez
Noelle Rose Scaldara

Elected in 1985-86

Aristotle Nicholas Balogh
Jeanne Chu
William Joseph Dwyer
Barbara Dean Hayes
Dukjin Im
Margaret Angela Kappel
John Francis Kutcher
Tri Luu Pham
Stephen Gordon Pimentel
Neil Cleveland Porter
David Michael Pressel
Thomas Allen Pruitt II
Tristan Jorge Tayag
Kahung George Ting
William Richard Wagner
William Edward Wallace III
Audrey Therese Winget

From the Part-Time Engineering Program

Russell Edward Barylon
David Hugh Brown
George Russell Dansberger
Lance Martin David
Henry Joseph Fleischman
Vernon Wayne Grapes
Charles Alan McEvoy
Jon Morlock
William Quillen

ALPHA OMEGA ALPHA

Honor Medical Society

Lee Scott Albert
Gregory John Duncan
Christopher Guerin
Jonathan Allen Javitch
Suzanne Julia Koven
Moira Potash Larsen
Steven Bernard Laster
Abraham Michael Lincoff
Clifford Arthur Lowell
Lois Ellen Nielsen
Jeffery Lee Pierson
Hans Joaquim Prochaska
Barry Kennedy Rayburn
Mark Steven Schlissel
Jay Marvin Schlumpberger
Linda Elinor Skinner
Rosario Richard Trifiletti
Thai Duc Trinh
Debbie Lakin Weaver
Jess Thomas Whitson
Matthew R. Wolff

DELTA OMEGA

National Public Health Honor Society

Peter Geoffrey Barss
Deborah Lynn Brimlow
Lorraine Litwinski Cameron
William John Cunningham
Marianne K. Floor-Ossendrijver
Victoria L. Han
Brigitte Helynck
Jane McAnany Jacobson
Michael John Keane
Muin Joseph Khoury
Robert William Kneller
Deloris Elizabeth Koziol
Jin Hwa Lee
Robert Alan Livingston
Mary Frances Lowe
C. Alan Lyles
Kelly Tilson McKee, Jr.
Marilyn Menkes
Deborah Claire Molrine
Edgar I. Necochea
Relford Eugene Patterson
Krishna Gopal Rampal
Kathryn M. Rost
Moiara de Moraes Ruehsen
Rona Sayetta
Susan Schober
Sarah Ruth Simon
Ronald Edward Voorhees
Karen Michele Webster
Curtis Wright IV

PI KAPPA LAMBDA

National Music Honor Society

Moli Chiang
Mark Kennerly Clinton
Kyoko Fujiwara
Paul Grove
James Andrew John Katchko
Kevin Park Kenner
Genevieve Feiwen Lee
Mark Markham
Sun Chioa-Ling

HONORS

Baccalaureate Candidates in the School of Arts and Sciences

Graduating with General Honors

Tara Illeana Allmen
Stephen David Antrobus
Sandra Lynn Babcock
Joan Catherine Bartlett
Beth Diane Berman
William Emanuel Bingaman
Philip Stuart Blum
Christopher Robert Briggs
Michael Eric Brown
Margaret Elise Burns
Michael Douglas Cantor
Linda Lamar Carrubba
Russ Paul Carstens
Sean O. Casey
Geoffrey Ward Clement
Pilar Cuesta
Susan Lynn Dauber
Frank Del Vecchio
Ronald Paul DeMatteo
Christopher Disimone
Tamar Alicia Donovan
John Andrew Drago
Catalino Icasia Dureza
Dan Samuel Edidin
William C. Edwards, III
Katherine Lynn Eubanks
Kathleen Susan Faust
David Fernandez
Gihan Suranjan Fernando
Paul Anthony Ferrer
Louise Emily Ferretti
David Spotts Fry
Carla Marie Giannoni
Robert Andrew Gilbert
Joan Maychu Go
Bryan Douglas Goldberg
Marc Fredrick Greenberg
Karen Louise Grissmer
Robin Lynn Gugenheim
Allen David Hamdan
Mark Charles Hannibal
Ava Marilyn Hansen
John Charles Heil
Hector Hermandez-Jamardo
James George Hoff
Steven Jay Howard
Peter Charles Iacono
Lisa Ijiri
Lauri Marie Jackson
Sanjaya Jha
Theodore Joseph Johnson
Laurance Wing-Hong Kam
Robert Keith Kannenberg
Michael David Karpa
Jay Scott Kaufman
Gerald Edward Keightley
Elizabeth Sharon Kelly
Babak Khoshnood
John Christopher Kilgallon
Jonathan David Kirshner
Lynn Debra Kowalski
Jodi Claire Krugman
Anastacia M. Kuvshinoff
Christopher J. Kwon
Eric Jonathan Lang
John Albert Lasseigne
Kenald Kyung-Hoon Lee
Robert Lee
Steven Carl Lessoff
Hyung Min Lim
Deborah Gail Limmer
Louis Hsi-Tein Liu
Kathleen Roberta Lockhart
Patrick Michael Mardesich
Allan Todd Marks
Steven Walter Medwid
Paul Bruce Miller
Nader Roy Mohtadi
Michele Staci Moise
Jonathan Toby Mordkoff
Maryanna Moskal
William John Mullaney
John Socrates Myseros
Robert John Nardino
Sheri Lynn Nimetz
Peter William Oehlkers
Joshua Mark Olshin
Michelle Dianne Onello
Jeffrey Rawson Park
Achyut Shashikant Patel
John Chih Peng
Catherine Raeff
Mark Wesley Reckson
Christine Ellen Ritchie
Matthew Robert Rockwood
Jeffrey Marc Rothfeld
George Henry Rudkin
Anthony Michael Russo
Andre Hani Saad
Mark Ira Salevitz
Jerry Anthony Schexnayder
Andrew Howard Schulick
Kim Seunghwan
Ellen Mindy Shulman
Aamir Siddiqui
Ronit Simantov
Daivd Keith Simon
David Andrew Stein
Rita Suri
David Ian Teitel
William Viqueira
Kevin Dewayne Ward
Jerry Lynn Watson
Jordan Lee Weinstein
R. Parker Williams, Jr.
Rachel Kathleen Wolford
Neil Kevin Worrall
Albert Min-Hsien Young
Amy Ann Zimmerman

Baccalaureate Candidates in the G.W.C. Whiting School of Engineering

Graduating with General Honors

Aristotle Nicholas Balogh
James Matthew Burck
Gregory Lee Burks
Dennis Allen Burton
Christopher Calingaert
James Thomas Cardwell
Ilga Celmins
Vitus Joon Tsi Chow
John McCann Cunniff
William Joseph Dwyer
James Theodore Everett
Roger Joseph Hajjar
Barbara Dean Hayes
Morgan Chih-Hsue Huang
Dukjin Im
Timothy Tamim Khater
Charn Kiatboonsri
Marcia Saralene Lecrone
Sangkyune Lee
Karen Joy Leong
Andrew Menching Liu
Laurence E. Mermelstein
Ayesa Nazneen Mian
Michael Niv
Christian Victor O'Keefe
Shilpesh Shantilal Patel
Stephen Gordon Pimentel
Neil Cleveland Porter
David Michael Pressel
Alden Mark Provost
Thomas Allen Pruitt, II
Robert Grady Roberds
Noelle Rose Scaldara
William Richard Wagner
William Edward Wallace, III
John Anthony Zappone

Baccalaureate Candidates in the School of Arts and Sciences

Graduating with Departmental Honors

Nathalie Barbe
Patrick Begos
Patrick Capuano
Russ Carstens
Vincent Chua
Susan Dauber
Frank DelVecchio
Marcus De Ruig
Chris DeSimone
Tamar Donovan
Dan Edidin
Katherine Eubanks
David Fernandez
Gihan Fernando
Alan Freudenstein
David Fry
Karen Fyfe
John Ghikas
Karen Grissmer
Peter Iacono
Lisa Ijiri
Lauri Jackson
Sanjaya Jha
Theodore Johnson
Laurence Kam
Scott Kamber
Robert Kannenberg
Jay Kaufman
John Kilgallon
Jonathan Kirschner
Robert Lee
Gordon Lewis
Ruel Little
Maryanne Moskal
William Mullaney
Sheri Nimetz
Peter Oehlkers
Joshua Olsin
Christopher Padilla
Arun Rangaswami
Matthew Rockwood
Leah Rosenberg
Ronit Simantov
Tammy Smecker
William Viquiera
Kevin Ward
John Waters
Albert Young

Graduates from the Biology Honors Program

Sanjaya Jha
Robert Lee

Graduate from the Humanistic Studies Honors Program

Elizabeth Kelly
Tyrus Miller

Baccalaureate Candidates in the G.W.C. Whiting School of Engineering

Graduating with Departmental Honors

Aristotle Balough
Thomas Beer
Kelly Boyd
James Burck
Gregory Burks
Dennis Burton
James Cardwell
Christopher Calingaert
Ilga Celmins
John Cuniff
William Dwyer
James Everett
Roger Hajjar
Barbara Hayes
Marcy Herman
Morgan Huang
Dukjin Im
Charn Kiatboonsri
John Kutcher
Carol Lebowitz
Marcia LeCrone
Sangkune Lee
Sung Lee
Karen Leong
Laurence Mermelstein
Shilpesh Patel
Tri Pham
Michael Phillips
Stephen Pimental
Neil Porter
David Pressel
Alden Provost
Thomas Pruitt
George Raiser
Robert Roberds
Noelle Scaldara
Michael Silverman
Tristen Tayag
Kahung Ting
Christian Turner
William Wagner
William Wallace
John Zappone

Baccalaureate Candidates in the School of Continuing Studies

Graduating with Honors

Cynthia Ann Bell
Linda Bihun-Werner
Alan Jay Blumenthal
Gloria Bryan
Phillip Foote, Jr.
Linda Graham
Albert Griffith
John Koelbl
Mark Lewitan
Esther Lupton
Shirley Poling

CANDIDATES FOR DEGREES

as of May 13, 1986

A number of the students included in the lists which follow completed their degree requirements earlier in the academic year and could not be present today to receive their degrees in person.

BACHELORS OF ARTS

in The School of Arts and Sciences

David K. Ades, of Babylon, N. Y.
Tara Illeana Allmen, of New York, N. Y.
Saeed Aminzadeh, of Tehran, Iran
Andrew Paul Amunategui, of Hallandale, Fla.
Stephen David Antrobus, of Baton Rouge, La.
Luis Raul Arroyo, of San Juan, Puerto Rico
Douglas Leonard Atlas, of Warren, N. J.
Herman Palileo Ayayo, of Emerson, N. J.
Farrukh Amin Azfar, of Karachi, Pakistan
Sandra Lynn Babcock, of Lutherville, Md.
Sujata Christine Banerjee, of St. Paul, Minn.
John H. Banister, of Rowlesburg, W. Va.
Nathalie Joe Barbe, of New York, N. Y.
William Neal Barnett, of College Park, Md.
Alan Michael Barry, of Chapel Hill, N. C.
Joan Catherine Bartlett, of Cape Girardeau, Mo.
John William Barton, of Weston, Conn.
Patrick Walter Begos, of Crestwood, N. Y.
Regina Mary Beleckas, of Hagaman, N. Y.
Geoffrey Thomas Bender, of Wayside, N .J.
Ronald M. Benoit, of Oakhurst, N. J.
Melissa Rachel Berger, of New Haven, Conn.
Andrew Charles Bilello, of Setauket, N. Y.
William Emanuel Bingaman, of Camp Hill, Pa.
Rebecca Marie Bjornson, of Fairfax, Va.
Philip Stuart Blum, of Dallas, Texas
Anne Catherine Bobchick, of Brooklyn, N. Y.
Stephanie Clintowia Boddie, of Baltimore, Md.
Matthew Richard Hook Borsch, of Berkeley, Calif.
Virginia Aileen Boundy, of Orleans, Mass.
Morgan Lou-Jacques Brache, of Calgary, Canada
Michael John Brady, of Whitestone, N. Y.
Karrie Ann Brenneman, of Clemmons, N. C.
Jennifer Lynn Brezenoff, of East Rockaway, N. Y.
Craig Alan Brooks, of Essex, Md.
Deane Beth Brown, of Highland Park, Ill.
Michael Eric Brown, of Jericho, N. Y.
Paul Joseph Bruha, of Severna Park, Md.
Eric Owusu Buadu, of Gaithersburg, Md.
Maija Lisa Burns, of Baltimore, Md.
Margaret Elise Burns, of Macon, Ga.
Scott Patrick Burns, of Baltimore, Md.
Ellen Joy Burroughs, of Bowie, Md.
Margaret Elizabeth Butler, of Baltimore, Md.
Michael Douglas Cantor, Chesterfield, Mo.
Patrick John Capuano, of Washington, D.C.
Dino Enrico Cardone, of Newburgh, N. Y.
Jennifer Susan Carri, of Lloyd Harbor, N. Y.
Linda Lamar Carrubba, of Baldwin, N. Y.
Russ Paul Carstens, of Oshkosh, Wis.
Sean Owen Casey, of Wantagh, N. Y.
David S. Castle, of Jenkintown, Pa.
Maria-Victoria Chattey, of Irvington, N. Y.
Vincent Pin Heng Chua, of Singapore.
Robert Alan Coates, of Hagerstown, Md.
Dale Thomas Alan Cochran, of Milford, Conn.
Rachel Beth Cohen, of Framingham, Mass.
Amy Lee Compton, of Webster Groves, Mo.
Darrell Edward Cook, of Washington, D. C.
Teresa Cecelia Cook, of Parker, Colo.
Michael L. Cosgrove, of Watertown, N. Y.
Brendan Augustin John Courtney, of Glen Arm, Md.
Gerard Lawrence Coy, of River Edge, N. J.
Wayne Samuel Creadick, Jr., of Upper Marlboro, Md.
Michael Paul Cucka, of Scotch Plains, N. J.
Marie del Pilar Cuesta, of Baltimore, Md.
David Edward Cullen-Vidal, of Santurce, Puerto Rico
John Pauly Cummings, of Dartmouth, Mass.
William Brock Dale, of Charlottesville, Va.
Olumide A. Danisa, of Oklahoma, City, Okla.
Susan Lynn Dauber, of Oakland, N. J.
Emily Clarke De Coster, of New York, N. Y.

Frank Lino De Vita, Jr., of Valley Cottage, N. Y.
Richard Alan de la Cruz, of Bethesda, Md.
Frank Del Vecchio, of New York, N. Y.
Ronald P. DeMatteo, of Clifton, N. J.
Michael Albert DeRosa, Jr., of Lansdale, Pa.
John Nicholas DeTommaso, of Farmingdale, N. Y.
Daniel Cox Dender, of Etowah, Tenn.
Jeffrey Marc Dick, of Annandale, Va.
Judith Geralyn DiRocco, of Munhall, Pa.
Christopher DiSimone, of North Canton, Ohio
Jason Alan Dominitz, of Potomac, Md.
Tamar Alicia Donovan, of Columbia, Md.
Aloysius Brian Christopher Doud, of Baltimore, Md.
Joyce Patricia Doyle, of Pearl River, N. Y.
John Andrew Drago, of Massapequa, N. Y.
Delverne Arthur Dressel, Jr., of Baltimore, Md.
Catalino Dominic Icasiano Dureza, of Baltimore, Md.
Dan Samuel Edidin, of Baltimore, Md.
William C. Edwards III, of Succasunna, N. J.
Joshua Norman Einhorn, of Woodland Hills, Calif.
Elizabeth Denise Elguera, of New York, N. Y.
Susan Elizabeth Ellis, of Fairfield, Me.
Stephen Elbert Elmore, of Flossmoor, Ill.
Nonnie-Marie Lina Estella, of New York, N. Y.
Katherine Lynn Eubanks, of Lantana, Fla.
Gail Jane Evans, of Albuquerque, N. M.
Timothy Shannon Fallon, of Thorndike, Me.
Gregory Charles Fanaras, of Methuen, Mass.
James Scott Farina, of Trenton, N. J.
Roger Alan Farley, of Chicago, Ill.
Kathleen Susan Faust, of Potomac, Md.
Steven Harold Feder, of Philadelphia, Pa.
Istvan Andras Fehervary, of Santa Fe, N. M.
David Fernandez, of Moorestown, N. J.
Gihan Suranjan Fernando, of Colombo, Sri Lanka
Lori Ann Ferrara, of Brooklyn, N. Y.
Paul Anthony Ferrer, of New Hyde Park, N. Y.
Louise Emily Ferretti, of Bethesda, Md.
Michael Patrick Flannery, of Philadelphia, Pa.
Marc Dominic Foca, of Chatham, N. J.
Darrell Devon Frazier, of New York, N. Y.
Alan H. Freudenstein, of Teaneck, N. J.
David Spotts Fry, of Mechanicsburg, Pa.
Karen Jane Fyfe, of Darien, Conn.
David Sebastian Gallo, of Wethersfield, Conn.
Robert Ashley Gatter, Jr., of Jenkintown, Pa.
Matthew Gertzog, of Lawrence, N. Y.
Beth Geter, of Trenton, N. J.
John Ghikas, of Athens, Greece
Carla Marie Giannoni, of Houston, Texas
Robert Andrew Gilbert, of Newnan, Ga.
Dana Frederic Gillian, of Ames, Iowa
Carol Ann Gilmore, of West Islip, N. Y.
Susan Beth Ginsberg, of Lafayette Hill, Pa.
Joan Maychu Go, of Ellicott City, Md.
Andrew Jay Goldberg, of Muttontown, N. Y.
Bryan Douglas Goldberg, of Virginia Beach, Va.
David Gonzalez-Mazariegos, of Silver Spring, Md.
Adam H. Goodfriend, of New York, N. Y.
David Peter Goodfriend, of Jamaica, N. Y.
Jeffrey Brian Gordon, of Highland Park, Ill.
Mary Elizabeth Goulet, of Aberdeen, Md.
Sindee Jenice Gozansky, of Ft. Lauderdale, Fla.
Marc Frederick Greenberg, of Glenview, Ill.
Charles Edward Greene II, of Cordele, Ga.
Joel Jeffrey Greenwald, of Teaneck, N. J.
Louis Howell Griffel, of Berkeley Heights, N. J.
Belinda Jane Griffith, of Rutherford, N. J.
Karen Louise Grissmer, of McLean, Va.
Henry Gordon Grossberg, of Staten Island, N. Y.
Robin Lynn Gugenheim, of Fair Lawn, N. J.
Kathleen Ann Gunn, of Philadelphia, Pa.
Kenneth Teofilo Gutierrez, of Meriden, Conn.
Jocelyn Kate Hadidian, of Cumberland, Md.
C. F. Claflin Hall, of Baltimore, Md.
Jeffrey Clifton Hall, of Farmville, Va.
Allen David Hamdan, of South Orange, N. J.
Mark Charles Hannibal, of Avon Lake, Ohio
Ava Marilyn Hansen, of New York, N. Y.
Helena G. Harvilicz, of Baltimore, Md.
John Charles Heil, of Bremerhaven, Germany
Deneen Hichelle Hendrick, of Teaneck, N. J.
Robert Leonard Hernandez, Jr., of Pembroke Pines, Fla.
Hector N. Hernandez, of Mayaguez, Puerto Rico
James Pendleton Herring, of Princeton, N. J.
William John Heym, of Valley Stream, N. Y.
Robert Emmett Higdon, of Towson, Md.
Steven Norbert Hochwald, of Douglaston, N. Y.
James George Hoff, of Oradell, N. J.
Richard Walter Hoheb, of Holmdel, N. J.
Adrienne Juliet Holmes, of Brooklyn, N. Y.
Julie Lynne Horth, of Mt. Cobb, Pa.
Christine Marie Houser, of Clearfield, Pa.
Steven Jay Howard, of Oceanside, N. Y.
Joanne Michele Howell, of Philadelphia, Pa.
Mark Ssu-Mai Huang, of Marianna, Fla.
Brian Glenn Huss, of Austin, Texas
Peter Charles Iacono, of Lancaster, Pa.
Lisa Ijiri, of Pittsburgh, Pa.
Dante Anthony Implicito, of Hasbrouck Heights, N. J.
Carla Lynn Jackson, of Centreville, Ill.
Lauri Marie Jackson, of Lakeland, Fla.
Valerie Lynn Jacobson, of Mohegan Lake, N. Y.
Sumayah Jamal, of Bronxville, N. Y.
Lars Fredrik Jarskog, of Enkoping, Sweden
Sanjaya Jha, of Bayside, N. Y.
Robert Alan Johnson, of Guilford, Conn.
Theodore J. Johnson, of Annapolis, Md.
Yvette Charese Johnson, of Baltimore, Md.
Nancy Beth Kalkin, of Bernardsville, N. J.
Laurance Wing-Hong Kam, of Allentown, Pa.
Scott Adam Kamber, of Deerfield, Ill.
Peter Yukio Kaneshige, of Rockville, Md.
Julie Anne Kang, of Hurricane, W. Va.
Robert Keith Kannenberg, of Parma, Ohio
Lisa Y. Kao, of New York, N. Y.
Jay Kaplan, of Potomac, Md.
Michael David Karpa, of Baltimore, Md.
Edward Marc Kasoff, of Pikesville, Md.
Jay Scott Kaufman, of Elma, N. Y.
Gerald Edward Keightley, of Annandale, Va.
James Peter Keim, of Portolla Valley, Calif.
Elizabeth Sharon Kelly, of Villanova, Pa.
Timothy James Kerns, of Rising Sun, Md.

Lise Sara Kessler, of New York, N. Y.
Babak Khoshnood, of Tehran, Iran
Jennifer Roberts Kidd, of Traverse City, Mich.
Todd Koichi Kihara, of Honolulu, Hawaii
John Christopher Kilgallon, of Ellicott City, Md.
Anna Young-An Kim, of Glendale, Calif.
Mimi E. Kim, of Santa Ana, Calif.
Jonathan David Kirshner, of Forest Hills, N. Y.
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Thomas D. Robinson, III, of Hampton, Va. Composition.
Andrew Jason Rogers, of Baltimore, Md. Music Education.
Raymond John Rossiter, of Churchville, N.Y. Horn.
Linda Sue Simon, of White Plains, N.Y. Violin.
Suzanne S. Simon, of Union City, Penna. Voice.
Karen Lynn Small, of Wilmington, Del. Flute.
Karen Lea Sorensen, of Tacoma, Wash. Violin.
William Tan, of Singapore, Republic of Singapore. Violin.
Maria Tegzes, of Trenton, N.J. Voice.
Catherine Louise Thorpe, of New Paltz, N.Y. Voice.
Dmitry Volynsky, of Randallstown, Md.; B.M. Peabody Conservatory of Music, 1985. Music Education.
Wu Wang, of Shanghai, China. Violin.
Yoon Young Joo, of Port Washington, N.Y. Piano.

BACHELORS OF SCIENCE

in The School of Nursing

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Cynthia Diane Collingwood, of Port Norris, N.J.
Nancy Lorena Davis-Griffin, of Baltimore, Md.; B.S. Towson State University, 1972.
Maria Josefina D. Figueroa, of Lavale, Md.
Diane Marie Fox, of Cockeysville, Md.
Susan Marie Germano, of Williamsville, N.Y.
Rina Sonya Gordon, of Silver Spring, Md.
Margaret Frances Grasham, of Baltimore, Md.
Eugenia Barker Harper-Jones, of Lanham, Md.; M.H.S. The Johns Hopkins University, 1975.
Mary Kathleen Jenkins, of Memphis, Tenn.
Bernard Vincent Keenan, of Ellicott City, Md.
Lauren Kate McKee, of Longwood, Fla.; B.A. The Johns Hopkins University, 1984.
Mary Patricia Monaghan, of Sherwood Forest, Md.
Ramona Marie Murphy, of Baltimore, Md.
Elizabeth Ann Packer, of Windber, Pa.; B.A. University of Pittsburgh, 1979.
John Dominic Rosella IV, of Greenville, Miss.; B.S. Millsaps College, 1984.
Susanne Waltraud Scharnhorst, of Columbia, Md.
Denise Gynn Schwarz, of Arnold, Md.
Barbara Wilson Schweizer, of Brooklandville, Md.
Karen Sue Shumar, of Baltimore, Md.
Heidi Christine Soppeland, of Santa Barbara, Calif.
Marianne Struntz, of Cumberland, Md.
Cecil Leroy Taylor, of Baltimore, Md.
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ASSOCIATES OF ARTS

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Nancy Patricia Grzymala, of Shrewsbury, Pa.
Regina Phyllis Minniss, of Baltimore, Md.
Sharon Marchant Ward, of Baltimore, Md.

ASSOCIATES OF SCIENCE

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Stewart Joel Ausfresser, of Catonsville, Md.
Joseph David Auslander, of Baltimore, Md.
Eric Hastings of Brown, of Frederick, Md.
Thomas Patrick Considine, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1976.
Vincent DiFatta, of Baldwin, Md.; B.A.S. Siena Heights College, 1980.
William Ridgely Dixon, of Finksburg, Md.
Daniel V. Ensz, of Lutherville, Md.
Joseph Leo Euker, of Reisterstown, Md.; A.A. Penn State University, 1979.
Bruce Jonathan Evans, of Baltimore, Md.
Donald James Fritzges, of Baltimore, Md.
William J. A. Gross, of Westminster, Md.
George Charles Gummer, of Edgewood, Md.
Andrew Howard, of Baltimore, Md.
Kenneth Wayne Iwanowski, of Baltimore, Md.
Perry Jerome Jones, of Baltimore, Md.
Delores K. Layson, of Baltimore, Md.
Carl August Letwinsky, Jr., of Pasadena, Md.
Ralph W. Lewis, Jr., of Baltimore, Md.
Jordan Loran, of Baltimore, Md.
Larry Anthony Manuel, of Sykesville, Md.
Leonard Mines, of Baltimore, Md.
Amy Judith Murtha, of Linthicum, Md.
Paul John Myers, of Baltimore, Md.
Ronald Bernard Ohara, of Baltimore, Md.
Scott Roycroft, of Airville, Pa.
Todd Evan Schlesinger, of Baltimore, Md.
Bruce Howard Shetrone, of Pasadena, Md.
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Carl Richard Spencer, of Westminster, Md.
Robert W. Sutton, of Baltimore, Md.
Donald Lee Tormollen, of Baltimore, Md.
Aldo Michael Vitucci, of Baltimore, Md.
Thomas Edward Wallace, of Baltimore, Md.
Mark David Wecht, of Owings Mills, Md.
Dwight James Weller, of Timonium, Md.
Sean Lamont Westley, of Baltimore, Md.

BACHELORS OF SCIENCE

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Agnes Theresa Ashe, of Baltimore, Md. Nursing.
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Alan Jay Blumenthal, of Baltimore, Md. Life Sciences.
Marion Winans Borgese, of Arnold, Md. Nursing.
Colleen Elizabeth Bowers, of Baltimore, Md. Nursing.
Margaret L. Brazil, of Cockeysville, Md. Nursing.
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Joseph Jerard Daniels, of Baltimore, Md. Mathematics.
Rosemary M. Darone, of Baltimore, Md. Management/Leadership.
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Bridget Dukehart, of Westminster, Md. Management/Leadership.
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Joanne Frantz, of Baltimore, Md. Management.
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Robert Bruce Glock, of Joppa, Md. Mathematics.
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Albert Verner Griffith, of Randallstown, Md. General Business.
Spurgeon C. Grove, Jr., of Annapolis, Md. Mathematics.
Linda May Hanifin, of Greenbelt, Md. Social Sciences.
Catherine Ann Harper, of Phoenix, Md. General Business.
Darlene M. Harper, of Rockville, Md. Nursing.

Athena Hope Harris, of Baltimore, Md. Management.
Mark Phillip Hastings, of Baltimore, Md. Life Sciences.
Paul Erwin Heinrich, of Baltimore, Md. Psychology.
Orman Donald Higgins, of Baltimore, Md. General Business.
Saul Horowitz, of Baltimore, Md. Life Sciences.
Susan Hamacher Jablecki, of Baltimore, Md. Nursing.
Carol Susan James, of Baltimore, Md. Life Sciences.
Deborah Lee Kahl, of Baltimore, Md.; A.A. Essex Community College, 1980. Nursing.
John Koelbl, of Baltimore, Md. Accounting.
Aaron Steven Levine, of Baltimore, Md. Mathematics.
Mark Isaac Lewitan, of Baltimore, Md. Life Sciences.
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Shirley Dubis Poling, of Reisterstown, Md. Nursing.
Roberta Margarêt Preston, of Baltimore, Md. Management/Leadership.
Sarah Jane Rech, of Timonium, Md. Nursing.
Anita Marie Reedy, of Bel Air, Md. Nursing.
Theresa Anne Rosen, of Bradshaw, Md. Nursing.
Cynthia L. Rosenberger, of Baltimore, Md. Nursing.
Joy Wilson Rousey, of Baltimore, Md. Nursing.
Anthony Joseph Santoro, of Baltimore, Md. Mathematics.
Deanna Ellen Schneider, of Cockeysville, Md.; B.S. Towson State University, 1980. Nursing.
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William Charles Taylor IV, of Baltimore, Md. Management/Leadership.
Jaime Canoy Tolentino, of Reisterstown, Md. Physical Sciences.
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Patricia Lemmon Van Deursen, of Baltimore, Md. Nursing.
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Cynthia Marie Glorioso, of Baltimore, Md.; B.S. Towson State College, 1976. Education.

Barbara Ann Goedeke, of Baltimore, Md.; B.S. St. Joseph College, 1969. Education.

Ruth Ellen Good, of Elkridge, Md.; B.S. Shippensburg State College, 1979. Education.

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MASTERS OF MUSIC

in The Peabody Conservatory of Music

Ronda Lea Ahearn, of Seattle, Wash.; B.F.A. Cornish Institute, 1984. Voice.

James L. Allison, of Sidman, Penna.; B.M. Duquesne University, 1984. Piano.

Kathleen Lynn Andrew, of Los Alamos, N.M.; B.M. University of New Mexico, 1983. Violin.

Timothy Lee Bandy, of Toccoa, Ga.; B.M. Wheaton College, 1982. Composition.

Barteld Douwe Bosma, of Arnhem, The Netherlands; akte B. Stedelijk Conservatorium Arnhem, 1984. Guitar.

Peter F. Bouchard, of St. Albans, Vt.; B.S. University of Vermont, 1984. Trombone.

Alan Chantker, of Baltimore, Md.; B.S. University of Maryland, 1975; B.M. Peabody Conservatory of Music, 1981. Composition.

Moli Chiang ,of Buenos Aires, Argentina; B.M. National Conservatory of Music of Buenos Aires, 1982. Piano.

Mark Kennerly Clinton, of Bowie, Md.; B.M. Peabody Conservatory of Music, 1984. Piano.

David Allen Cover, of Myerstown, Penna.; B.A. Bucknell University, 1984. Piano.

Marcia Lorraine Englar, of York, Penna.; B.M., B.M.E. Augustana College, 1976. Guitar.

Cathy Leona Ferguson, of Fort Collins, Colo.; B.M. Colorado State University, 1982; M.M. Peabody Conservatory of Music, 1985. Conducting.

Susan Elisabeth Avery Gray, of Baltimore, Md.; B.A. Mary Washington College, 1980. Harp.

Kenneth Byron Hanks, of St. Petersburg Beach, Fla.; B.M. University of Florida, 1984. Piano.

Gregory Bernard Hudak, of Northampton, Penna.; B.M. The Catholic University of America, 1971. Composition.

Jeffrey Sheldon Hudson, of Siler City, N.C.; B.M. University of North Carolina—Chapel Hill, 1983. Piano.

Richard James Italiano, of Denver, Colo.; B.M. University of Northern Colorado, 1982. Piano.

Paul Leonard Johnson, of Stoughton, Wisc.; B.M. St. Olaf College, 1980. Double Bass.

James Andrew John Katchko, of Swoyersville, Penna.; B.A. King's College, 1980; B.M. Peabody Conservatory of Music, 1983. Voice.

Mark Louise Kausch, of Madison, Wisc.; B.A. St. Olaf College, 1984. Double Bass.

Bok Hwa Kim, of Memphis, Tenn.; B.M. Peabody Conservatory of Music, 1982; M.M. The Juilliard School, 1985. Piano.

Haerie Lee, of Seoul, Korea; B.A. Hanyang University, 1983. Piano.

Mark Markham, of Pensacola, Fla.; B.M. Peabody Conservatory of Music, 1984. Piano.

Thomas Albert Morgan, of University City, Mo.; B.M. Manhattan School of Music, 1984. Viola.

Cecilia Oh, of Columbia, Md.; B.M. Ewha Womans University, 1966; M.M., 1970. Music Education.

Rūta Marija Pakstas, of Chicago, Ill.; B.M. DePaul University, 1984. Voice.

Jonathan Palevsky, of West Mount, Quebec, Canada; B.M. Carleton University, 1983. Guitar.

Jan Louise Peterson, of Clearbrook, Minn.; B.A. Bemidji State University, 1983. Voice.

David W. E. Rogers, of London, England; F.T.C.L. Trinity College of Music, 1976; G.B.S.M. Birmingham School of Music, 1977. Guitar.

Gisèle Lynne Rouleau, of Edmonton, Alberta, Canada; B.M. University of Alberta, 1984. Piano.

Jon Saboe, of Bonners Ferry, Idaho; B.M. Peabody Conservatory of Music, 1985. Piano.

Dominic Sargent, of Boston, Mass.; B.A. Cambridge University, 1984. Conducting.

David Shumway, of Lawrence, Kans.; B.M. Kansas University, 1983. Violoncello.

J. Mark Stambaugh, of Lancaster, Penna.; B.M. Boston Conservatory of Music, 1980. Composition.

Sun Chiao-Ling, of Taipei, Taiwan; B.M. Peabody Conservatory of Music, 1985. Violin.

Annie Harumi Takeuchi, of San Francisco, Calif.; B.A. Yale University, 1984. Piano.

Norman Curtis Thibodeau, of Albany, N.Y.; B.A. State University of New York at Albany, 1981. Flute.

Antoinette Louise Toppin, of Ettrick, Va.; B.M. University of North Carolina, 1983; M.M. Peabody Conservatory of Music, 1985. Voice.

Rosemary Joy Tuck, of Woodhouselee, New South Wales, Australia; B.A. Canberra School of Music, 1982. Piano.

ARTISTS DIPLOMAS

in The Peabody Conservatory of Music

Sandra Shapiro, of Baltimore, Md. Piano.

MASTERS OF SCIENCE

in The School of Hygiene and Public Health

Hubert Abraham Allen, Jr., of Glencoe, Ill.; Sc.B. Brown University, 1980. Biostatistics.

Methods of Band Survival Analysis: Applied to Studies of the Tundra Swan (Cygnus columbianus columbianus).

Purwantyastuti Ascobat, of Jakarta, Indonesia; M.D. University of Indonesia, 1975. Population Dynamics.

Changes in Sperm Quantity, Sperm Motility and Sperm Morphology in Rats Treated with Testosterone and Testosterone-Estradiol: Its Correlation with Fertility.

Greta S. Brand, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1979. Behavioral Sciences and Health Education.

Patient's General Life Satisfaction and Its Relation to the Patient-Physician Interaction.

James E. Drummond, of Phoenix, Md.; B.S. St. Mary's College, 1982. Immunology and Infectious Diseases.

Immunity to BK Papovavirus in Normal Individuals and Allogeneic Bone Marrow Transplant Recipients.

Amy Lynne Foehner, of Silver Spring, Md.; B.A. Drew University, 1983. Population Dynamics.

Formation and Function of the Pronucleus Following Fertilization of the Hamster, In Vivo and In Vitro.

Elizabeth Ann Grossman, of White Plains, N.Y.; B.A. The Johns Hopkins University, 1980. Biostatistics.

Methods for the Analysis of Interval Censored Data with an Application to PCB Levels in Adipose Tissue of Transformer Repair Workers.

Jessica Halprin, of Chicago, Ill.; B.A. Swarthmore College, 1982. Immunology and Infectious Diseases.

Serological Analysis of Epstein-Barr Virus Infections Using a Bacterially Synthesized Early Antigen (EA)

Lisa Paula Jacobson, of New York, N.Y.; B.A. The Johns Hopkins University, 1982. Epidemiology.

Case-Control Studies: As Reviewed Through Published Literature.

Mohammad Rezaul Karim, of Dhaka, Bangladesh; B.Sc. Dhaka University, 1979; M.Sc., 1981. Population Dynamics.

Differences in Village Level Fertility and Mortality Rates in Rural Bangladesh.

Deanna Maureen Kruszon-Moran, of Riverhead, N.Y.; B.A. Elmira College, 1982. Biostatistics.

Oral Contraceptive Use, Alcohol Consumption and Plasma Lipid and Lipoprotein Levels.

Sarah Anne Lowell, of Westfield, N.J.; B.S. Cook College, 1982. Biostatistics.

Odds Ratio Regression for Serial Data.

Helen I. Meissner, of Columbia, Md.; B.S. Lebanon Valley College, 1979. Behavioral Sciences and Health Education.

Self-Care Behaviors in Diabetes.

Billie Michele Melia, of Pittsburgh, Pa.; B.S. University of Pittsburgh, 1983. Biostatistics.

A Comparison of Four Models for Change in Visual Acuity Over Time.

Sonia Muchnick, of Madison, Wis.; B.A. Grinnell College, 1970; M.A. University of Wisconsin, 1978. Behavioral Sciences and Health Education.

Confidence-Power Drinking in a Sample of Baltimore Women Drinkers.

Dana Sue Pollack, of North Woodmere, N.Y.; B.A. University of Pennsylvania, 1983. Behavioral Sciences and Health Education.

The Value of Using Incentives in a Smoking Cessation Program.

Timothy Richard Rebbeck, of Rapid City, S. Dak.; B.A. Northwestern University, 1984. Epidemiology.

The Monoclonal Gammopathies: Characterization and Clinical Associations in a Hospital Population.

Victor H. Sierra, of Quito, Ecuador; B.S. American University, 1982. Epidemiology.

Bacteremia in a General Hospital.

Beryl Silkey, of Toronto, Canada; B.A. State University of New York at Stony Brook, 1971. Population Dynamics.

Pelvic Inflammatory Disease and Contraceptive Use: A Multinational Case-Control Study.

Robin William Switzer, of Ames, Iowa; B.S. Iowa State University, 1982. Behavioral Sciences and Health Education.

Applied Behavioral Analysis of Facewashing as a Factor in Trachoma: A Methodological Exploration.

MASTERS OF HEALTH SCIENCE

in The School of Hygiene and Public Health

Jane Wilder Andrews, of Baltimore, Md.; B.A. Goucher College, 1979; M.A. Middlebury College, 1980. Health Policy and Management, Health Finance and Management.

Linda Bailey, of Baltimore, Md.; B.S. Tufts University, 1980. Epidemiology.

Timothy John Buckley, of Detroit Lakes, Minn.; B.S. St. John's University, 1981. Environmental Health Sciences, Occupational Safety and Health.

Earl James Campazzi, II, of Edinboro, Pa.; B.A. The Johns Hopkins University, 1984. Immunology and Infectious Diseases.

Ann Marie Cappabianca, of Bethesda, Md.; B.A. University of Virginia, 1983. Environmental Health Sciences, Occupational Safety and Health.

Audrey Wen San Cheang, of Toronto, Canada; B.A. University of Rochester, 1977; M.A. University of Maryland, 1980. Health Policy and Management, Health Finance and Management.

Mary Elizabeth Cieslicki, of Carlisle, Pa.; B.A. Macalester College, 1979. Health Policy and Management, Health Finance and Management.

Richard L. Coshnear, of Baltimore, Md.; B.A. Vassar College, 1978; M.A. McGill University, 1983. International Health.

Guede Dadou, of Soubre, Ivory Coast; Sc.M. University of Abidjan, 1981. Immunology and Infectious Diseases.

Valerie Antoinette Darden, of St. Louis, Mo.; B.S. University of Southern California, 1985. Maternal and Child Health.

Paula Beth Davis, of Newark, Del.; B.A. University of Delaware, 1984. Health Policy and Management, Health Finance and Management.

SherrieLynn Catherine Dixon, of Washington, D.C.; B.A. The Johns Hopkins University, 1984. Health Policy and Management, Health Finance and Management.

Julie Anne Druker, of Newton Centre, Mass.; B.S. University of Massachusetts-Amherst, 1982. Health Policy and Management, Health Finance and Management.

Lauren Dundes, of Miami, Fla.; B.A. Stanford University, 1984. Maternal and Child Health.

Lyle Richard Edinger, of Ann Arbor, Mich.; B.S. University of Michigan, 1980. Environmental Health Sciences, Occupational Safety and Health.

Fanchon Fae Finucane, of Minneapolis, Minn.; B.A. University of Minnesota, 1982. Epidemiology.

Kathleen Fox, of Baltimore, Md.; B.A. College of Notre Dame, 1981. Epidemiology.

Elizabeth Rebecca Helgeson, of Green Bay, Wis.; B.A. Ripon College, 1982. Epidemiology, Human Genetics.

Melanie Ann Holcomb, of Timonium, Md.; B.A. Connecticut College, 1983. Health Policy and Management, Health Finance and Management.

Margarita Patricia Hurtado, of Cali, Colombia; B.A. Albion College, 1982. International Health.

Abdulnasser Khalifeh, of Damascus, Syria; B.Sc. Damascus University, 1980. Environmental Health Sciences, Radiation Health Sciences.

Monica Slusher Kinosian, of Baltimore, Md.; B.A. University of California at Berkeley, 1977. Health Policy and Management, Health Finance and Management.

Alice Elizabeth Koegel, of Chevy Chase, Md.; B.S. Muhlenberg College, 1983. Environmental Health Sciences, Occupational Safety and Health.

Dagoberto Helio Lorenzetti, of Sao Paulo, Brazil. Environmental Health Sciences, Occupational Safety and Health.

Barbara Suzanne Lyons, of Baltimore, Md.; B.S. University of Maryland, 1980; B.A., 1981. Health Policy and Management, Health Finance and Management.

Margaret Ann Veronica Maeder, of Ithaca, N.Y.; B.S. Cornell University, 1982. Epidemiology, Human Genetics.

Barbara Carla McKeown, of New York, N.Y.; B.A. University of Maryland, 1979; M.P.A. George Washington University, 1982. Health Policy and Management, Health Finance and Management.

Deborah Lee McLellan, of New Vernon, N.J.; B.A. Franklin and Marshall College, 1980. Population Dynamics.

Robin Hardy Miller, of Chicago, Ill.; B.S. University of Michigan, 1974; M.D. University of Illinois, 1979. Epidemiology.

Marisa Mirjafary, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1980. Population Dynamics.

Robert F. Mouradian, of Brewer, Maine; B.S. University of Maine, 1979; M.A. University of California, 1983. Environmental Health Sciences, Occupational Safety and Health.

Michael James O'Neill, of Baltimore, Md.; B.A. Western Maryland College, 1980. Environmental Health Sciences, Radiation Health.

Moiara de Moraes Ruehsen, of Baltimore, Md.; B.A. The Johns Hopkins University, 1985. International Health.

Allen Russell Schaeffer, of Westminster, Md.; B.S. University of Maryland, 1983. Environmental Health Sciences, Occupational Safety and Health.

Pamela Jane Simerly, of Lake Wales, Fla.; B.A. George Mason University, 1983. Health Policy and Management, Health Finance and Management.

Andrew A. Vernon, of Atlanta, Ga.; B.A. Harvard College, 1971; M.D. Harvard Medical School, 1975. Epidemiology.

Susan Elaine Vitale, of Lancaster, Pa.; B.A. Millersville University, 1979. Biostatistics.

Victor Gerald Vogel, III, of Baltimore, Md.; B.A. The Johns Hopkins University, 1974; M.D. Temple University, 1978. Epidemiology.

Michal Ann Warshow, of New York, N.Y.; B.A. The Johns Hopkins University, 1982. Epidemiology.

James Douglas Werner, of Newark, Del.; B.A. University of Delaware, 1980. Environmental Health Sciences.

MASTERS OF PUBLIC HEALTH

in The School of Hygiene and Public Health

Sabah Ali Al-Attar, of Baghdad, Iraq; M.B.Ch.B. University of Baghdad, 1977.

Bassam Al-Hakeem, of Damascus, Syria; M.D. University of Damascus, 1977.

Arsalan Al-Khouleidy, of Taiz, Yar; M.D. Addis Ababa University, 1979.

Homeed Hamid Al-Salmi, of Abha, Saudi Arabia; M.B.Ch.B. King Abdulaziz University, 1983.

Olga Amat Y Leon, of Lima, Peru; M.D. Angloamerican Clinic San Marcos University, 1973.

Lulu Amornmarn, of Bangkok, Thailand; B.Sc. Mahidol University, 1980; M.D., 1982.

Mary Alice Buck Anderson, of Jacksonville, Fla.; B.S. University of Massachusetts, 1968; M.S. University of Nevada, 1974; M.D. University of Alabama, 1979.

Sujono Angkasa, of Indonesia; D.D.S. University of Professor Doctor Moestopo, 1976.

Poerwokoesoemo Arbani, of Jakarta, Indonesia; M.D. Gajah Mada University, 1968.

Linda N. Arias, of New Rochelle, N.Y.; B.A. Mount Holyoke College, 1979.

Lee Ian Ascherman, of Cleveland, Ohio.; B.A. Case Western Reserve University, 1977; M.D., 1982.

Peter Geoffrey Barss, of Wolfville, Nova Scotia, Canada; B.Sc. Acadia University, 1967; M.D. University of Chicago, 1971.

Sergio Luiz Bassanesi, of Porto Alegre, Brazil; M.D. Universidade Federal Do Rio Grande Do Sul, 1974.

Abdulnasir Ali Batouk, of Abha, Saudi Arabia; M.B. King Abdulaziz University, 1983.

Nasreen Nasim Battla, of Vestal, N.Y.; M.B.B.S. Sind Medical College, 1981.

Okwo Bele, of Kinshasa, Zaire; M.D. University of Kinshasa, 1981.

Waldmir Belinati, of Brasilia, Brazil; M.D. Medicina Universidade Estadual De Londrina, 1974.

Susan Berry, of Glen Ridge, N.J.; B.A. Rutgers University, 1977. M.D. New Jersey College of Medicine, 1981.

Sudershan K. Bhatia, of New Delhi, India; M.B.B.S. Allamabad University, 1978.

Catherine M. Bonk, of Pittsburgh, Pa.; B.S. The Johns Hopkins University, 1979.

Robert Emmett Bonner, of Cheltenham, Pa.; B.A. LaSalle University, 1972; M.D. Jefferson College, 1976.

Allan Jay Brimmer, of Bethesda, Md.; B.A. University of Chicago, 1970; M.D. University of Illinois, 1976.

Bruce Peter Brown, of Montreal, Quebec, Canada; B.Sc. McGill University, 1969; M.D., 1973.

Danielle Candau, of Paris, France; M.D. Bordeaux, 1976.

Chin-Yung Paul Chang, of Changhua, Taiwan; B.M. Taipei Medical College, 1981.

Chung-Sun Chao, of Tainan, Taiwan; M.D. National Taiwan University, 1976.

Anne Chiapella, of Menlo Park, Calif.; B.A. Stanford University, 1964; Ph.D. 1983; M.S., 1984.

Joanna Chusid, of Wantagh, N.Y.; B.A. University of Pennsylvania, 1970; J.D. Suffolk University, 1975.

Nancy Codori, of Upper Marlboro, Md.; B.A. University of Maryland, 1980.

Noah Dan Cohen, of Wallingford, Pa.; B.A. University of Pennsylvania, 1979; V.M.D., 1983.

Sylvia Cohn, of Montevideo, Uruguay; B.S. Hebrew University, 1974; M.S., 1979.

Perla Elisa Coll, of Santa Fe, Argentina; Lic. en Psicologia Universidad Nacional Autonoma De Mexico, 1976.

David Alan Compton, of Edgewood, Md.; B.S. Virginia Commonwealth University, 1977; M.S., 1979; M.D., 1984.

Barbara Lynn Conrad, of Keyser, W.Va.; B.S.N. University of Maryland, 1973.

Ana Maria Segall Correa, of Ipanema, Minas Gerais, Brazil; M.D. Universidade de Brasilia, 1974.

Mary Patricia Couig, of Pittsfield, Mass.; B.S.N. Fitchberg State College, 1979.

Elisabeth Couturier, of Le Mans, France; M.D. Universite D'Angers, 1980.

William John Cunningham, of San Diego, Calif.; B.A. Dartmouth College, 1972; M.D. Mount Sinai School of Medicine, 1976.

Jose Miguel De Angulo, of Popayan, Colombia; M.D. Universidad Del Cauca, 1979.

Mary A. De Berge, of Kenosha, Wis.; B.S.N. University of Wisconsin, 1981.

Jean-Pierre De Landtsheer, of Brussels, Belgium; M.D. Free University of Brussels, 1973.

Scott David Deitchman, of Akron, Ohio; B.S. Ohio State University, 1977; M.D. Northwestern Ohio University College of Medicine, 1984.

Roberto Del Aguila, of Lima, Peru; M.D. San Marcos University, 1981.

Andre Denis, of Rio De Janeiro, Brazil; B.A. The Johns Hopkins University, 1981.

Mercedes Deonis, of Madrid, Spain; M.D. Complutense University, 1981.

Micheline Dole, of Port-Au-Prince, Haiti; M.D. State University of Haiti, 1977.

Nancy Louise Egbert, of Baltimore, Md.; B.A. University of Kansas, 1971; B.S.N. University of Maryland, 1979.

Amr Yehia Eissa, of Cairo, Egypt; B.S. The Johns Hopkins University, 1982.

Cynthia Mary Fehrs, of Waterbury, Conn.; B.S.N. Boston College, 1976.

Donna Marie Felling, of Baltimore, Md.; B.S.N. University of Maryland, 1980.

Catterine Ferreccio, of Santiago, Chile; M.D. University of Chile, 1977; M.P.H., 1983.

Barbara Jane Fink, of Hales Corners, Wis.; B.A. Valparaiso University, 1974.

Lisa Ann Cynthia Firth, of London, England; M.B.B.S. University of London, 1979.

Marianne K. Floor-Ossendrijver, of The Hague, Netherlands; M.D. University of Utrecht, 1971.

Vicky Lynn Fogelman, of Mentor, Ohio; D.V.M. Ohio State University, 1974.

Daniel Ernest Ford, of Niagara Falls, N.Y.; B.A. Cornell University, 1978; M.D. State University of New York at Buffalo, 1982.

Howard Frank, of Baltimore, Md.; B.A. Rutgers University, 1967; M.D. Hahnemann Medical College, 1971.

Amado Xavier Freire, of Guaysquil, Ecuador; M.D. Universidad Estatal de Guaysquil, 1979.

Robert Charles Frey, of Cedaredge, Colo.; B.A. Colorado College, 1974; M.D. Colorado University, 1979.

Anne Marie Gadomski, of Yonkers, N.Y.; B.A. College of Holy Cross, 1978; M.D. University of Rochester, 1982.

Abdulhameed M. A. Gasim, of Abha, Saudi Arabia; M.B.Ch.B. King Abdulaziz University, 1981.

Harold Sanford Goodman, of Albuquerque, N.M.; B.A. Rutgers University, 1972; D.M.D. College of Medicine and Dentistry of New Jersey, 1975.

Judith A. Graeff, of Silver Spring, Md.; B.A. University of Michigan, 1970; Ph.D. State University at New York, 1979.

Thomas P. Gross, of Denver, Colo.; B.A. Colorado College, 1976; M.D. University of Colorado, 1980.

Anne Guilfoile, of Fairplay, Colo.; B.A. Lawrence University, 1964; B.S.N. St. Louis University, 1977.

Alfredo Guzman, of Lima, Peru; M.D. Universidad Peruana Cayetano Heredia, 1970.

Faye Sheehy Hannah, of Sacramento, Calif.; B.A. San Francisco State University, 1983.

Mary Anne Hardy, of Cleveland Ohio; B.A. Oberlin College, 1977; B.S.N. Case Western Reserve University, 1979.

Stewart Harris, of Calgary, Alberta, Canada; B.Sc. University of Calgary, 1979; M.D., 1982.

Penny Ann Hatcher, of Plymouth, Minn.; B.A. College of St. Scholastica, 1970; M.S.N. Yale University, 1974.

Edwin M. Healey, of San Antonio, Texas; B.A. University of Oklahoma, 1969; M.D., 1973; M.A. Webster College, 1982.

Brigitte Helynck, of Maisons-Laffitte, France; M.D. University of Paris, 1982.

Beth Miriam Henning, of Pincher Creek, Canada; B.S.C. University of Calgary, 1979; M.D., 1981.

Carlos Arturo Hernandez, of Bogota, D.E., Colombia; B.A. Yale University, 1971; M.D. Universidad Nacional de Colombia, 1981.

Kelliann Hess, of Ringoes, N.J.; B.A. The Johns Hopkins University, 1981;

Chao-Young Huang, of Kaohsiung, Taiwan; B.M. Kaohsiung Medical College, 1975.

Cindy Louise Hunt, of Lindsay, Ontario, Canada; B.Sc.N. Lakehead University, 1979.

Mary Ann Hylander, of Rockville, Md.; B.A. Brown University, 1976; B.S. State University of New York, 1978; M.S. Columbia University, 1982.

Khalid Jalil, of Dhaka, Bangladesh; M.B.B.S. Dhaka Medical College, 1982.

Henriot Jean-Baptiste, of Waltham, Mass.; M.D. Faculte De Medecine Et Pharmacie, 1978.

Maria Angelica Jerez, of Baltimore, Md.; M.D. Universidad De Chile, 1973.

Ellen Rosemary Kessler, of Bethesda, Md.; B.A. University of Colorado, 1974; M.D. Georgetown University, 1978.

Thomas D. Kirsch, of Omaha, Nebr.; B.A. Creighton University, 1980; M.D. University of Nebraska, 1984.

Wilson Kisambira Kisubi, of Namakoba, Uganda; M.B.-Ch.B. Makerere University, 1971.

Chris Larson Kjolhede, of Mt. Pleasant, Mich.; B.S. Central Michigan University, 1971; M.D. Michigan State University, 1981.

Robert William Kneller, of Bellingham, Wash.; B.A. Swarthmore College, 1975; J.D. Harvard University, 1980; M.D. Mayo Medical School, 1984.

Indira A. Kotval, of Bombay, India; B.A. University of North Bengal, 1965; B.Ed. University of Gauhati, 1966; M.A. Tata Institute of Social Sciences, 1981.

Deloris Elizabeth Koziol, of Kensington, Md.; B.A. University of Delaware, 1971.

Marilyn Kresky-Wolff, of Baltimore, Md.; B.A. Oberlin College, 1970; M.S.W. Catholic University, 1973.

Romanus Eddy Purwanto Lamanepa, of Maumere, Indonesia; M.D. University of Indonesia, 1977.

Victor Lara, of Lima, Peru; B.Ms. Universidad Nactional Federico Villarreal, 1982; M.D., 1982.

Philippe Charles Pierre Larco, of Port-Au-Prince, Haiti; M.D. School of Medicine Haiti, 1982.

Mary Kathleen Lears, of Baltimore, Md.; B.S. Towson State University, 1976.

Jin Hwa Lee, Republic of Singapore, Singapore; M.B.B.S. University of Singapore, 1980.

Catherine Elizabeth Leidig, of Pasadena, Md.; B.S. Loyola College, 1984.

Maureen Yvette Lichtveld, of Paramaribo, Suriname; M.D. University of Suriname, 1981.

Boon Poh Lim, of Rangoon, Burma; M.B.B.S. Institute of Medicine, 1977.

Grace Anania Link, of Baltimore, Md.; B.S.N. Towson State University, 1981.

Denise Conley Lionetti, of Washington, D.C.; B.S. University of Arizona, 1976.

Cynthia Merle Lipsitz, of Richmond, Va.; B.A. University of Virginia, 1975; M.D. Medical College of Virginia, 1979.

Thomas Stanley Lis, of San Francisco, Calif.; B.S. The Johns Hopkins University, 1978.

Robert Alan Livingston, of El Dorado, Kans.; B.A. University of Kansas, 1981; M.D. The Johns Hopkins University, 1985.

Elizabeth Mary Lofthus, of Rockville, Md.; B.S.N. American University, 1983.

Mary Frances Lowe, of Alexandria, W.Va.; B.A. College of William and Mary, 1972; M.A. Tufts University, 1975; M.A.L.D., 1978.

Denis Richard Mackey, of Springfield, Va.; B.S. Richmond College, 1976.

Valsa S. Madhava, of New York, N.Y.; B.A. New York University, 1981.

Marc William Manley, of Seattle, Wash.; B.S. University of Washington, 1976; M.D., 1983.

Gabriel Kipmgemo Maritim, of Gelegele-Sotik, Kenya; B.Sc. Oregon State University, 1977; M.Sc. 1980; Ph.D. University of Oregon, 1984.

Ivan De Carvalho Masera-ha, of Salvador Bahia, Brazil M.D. Escola de Medicna e Saude Publica, 1981.

Melissa Anne McDiarmid, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1975; M.D. University of Maryland, 1979.

Kelly Tilson McKee, Jr., of Charleston, S.C., B.S. Davidson College, 1972; M.D. University of Virginia, 1976.

Carol McLean, of Wheeling, W.Va.; B.S. Case Western Reserve University, 1977.

John Michael McNamara, of Arlington, Va.; B.S. Marquette University, 1971; M.S. George Washington University, 1976; M.D. 1980.

Ruth Murray McSloy, of Wilmington, Del.; B.S. University of Delaware, 1980; M.D. The Johns Hopkins University, 1985.

William Paul McWhorter, of Silver Spring, Md.; B.A. Rice University, 1965; M.D. Texas Southwestern, 1969.

Minda Pascual Mella, of Manila, Philippines; B.A. University of The Philippines, 1974.

Abdul Hamid Miah, of Dhaka, Bangladesh; M.B.B.S. Dhaka University, 1965.

Barbara Gail Michael, of Baltimore, Md.; B.A. Yeshiva University, 1980; M.D. University of Maryland, 1984.

Michael Miller, of Narberth, Pa.; B.A. The John Hopkins University, 1980.

Deborah Claire Molrine, of Allentown, Pa.; B.S. Pennsylvania State University, 1980.

Michele Montavon, of Boston, Mass.; B.S. St. Xavier College, 1972.

Margaret Rusha Moon, of Buchanan, Mich.; B.S. Michigan State University, 1982.

Claudia Scala Moy, of Silver Spring, Md.; B.S. Pennsylvania State University, 1974.

Jayaprakash Muliyil, of Calicut, Kerala, India; B.Sc. Kerala University, 1969; M.B.B.S. Madras University, 1974; M.D., 1981.

Cynthia Myntti, of Minneapolis, Minn.; B.A. University of Utah, 1971; M.A. American University of Beirut, 1974; Ph.D. London School of Economics, 1983.

Edgar I. Necochea, of Lima, Peru; M.D. Universidad Nacional Mayor de San Marcos, 1977.

Wendy Elizabeth Newcomer, of Missoula, Mont.; B.A. Kalamazoo College, 1974; B.S.N. Montana State University, 1980.

Christian Nnamdi Nwankwo, of Enugwu-Agidi, Anamrba State, Nigeria; M.B.B.S. University of Ibadan, Nigeria, 1980.

Joan Wicks Oxendine, of Mitchellville, Md.; B.S. Bowie State College, 1985.

Kyu Hong Pak, of Seoul, Korea; M.D. Catholic Medical College, 1983.

Dogg Palsdottir, of Reykjavik, Iceland; Cand. Jur. University of Iceland, 1980.

Servatius Muti Pareira, of Kupang, Indonesia; M.D. Gajah Mada University, 1972.

Relford Eugene Patterson, of Silver Spring, Md.; B.S. Purdue University, 1974; M.D. Georgetown University, 1978.

Jeffrey Mark Paull, of Pittsburgh, Pa.; B.S. University of Pittsburgh, 1974; M.S., 1976.

Eileen L. Peterson, of Manson, Iowa; B.S.N. University of Iowa, 1982.

Pamela J. Pine, of Fair Lawn, N.J.; B.F.A. Cornell University, 1977; M.A.I.A. Ohio University, 1981.

Michael Alan Polis, of Chevy Chase, Md.; B.S. Yale University, 1976; M.D. Albert Einstein College of Medicine, 1980.

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MASTERS OF ARTS

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Creation of an Organized Uniform Ambulance Service for the Armies of the United States During the Civil War: The Events Contributing to the Passage of the Ambulance Corps Act of 1864.

Sarita H. Hleap, of Atlanta, Ga.; B.F.A. University of Georgia, 1981. Medical and Biological Illustration.

An Illustrated Prosector's Manual for Autopsy Procedures.

Diane T. Hodgkins, of Las Vegas, Nev.; B.S. Northern Arizona University, 1981. Medical and Biological Illustration.

An Atlas of the Forearm Anatomy of the Giant Flying Squirrel, petaurista grandis.

Robert Mark Kaiser, of Baltimore, Md.; B.A. Duke University, 1978. History of Medicine.

Thinking About High Blood Pressure: Theodore C. Janeway and the Clinical Investigation of Hypertension.

Joel Thorp Katz, of Glencoe, Ill.; B.A. Earlham College, 1981. Medical and Biological Illustration.

The Mechanisms of Extraocular Muscle Injury in Orbital Floor Fractures.

Mark Mitchell Miller, of Raytown, Mo.; B.F.A. University of Missouri-Columbia, 1982. Medical and Biological Illustration.

Thyroid Patient Simulator, an Instructional Model for the Palpation of the Normal and Abnormal Thyroid Gland.

Corinne Sandone, of Sandy Hook, Conn.; B.A. Oerblin College, 1982. Medical and Biological Illustration.

Bay Life and Habitats Flash Cards, Marine Biology of the Chesapeake Bay in Maryland.

Lorraine D. Sneed, of Campbell, Calif.; B.A. University of California (Davis), 1984. Medical and Biological Illustration.

Temporal Bone Ultrastructures: Optimal Planes of Visualization by Computed Tomography.

Claudette Marie Snow, of Baltimore, Md.; B.A. Mount Holyoke College, 1982. Biochemistry, Cellular and Molecular Biology Program—Biological Chemistry.

Isolation of a Family of Monoclonal Antibodies which Recognize a set of Immunologically Related Polypeptides of the Nuclear Poor Complex and Characterization of the Antigens.

Timothy A. Vojt, of Baltimore, Md.; B.A. University of Denver, 1984. Medical and Biological Illustration.

A Table of Normal Development of the Poison Arrow Frog, Dendrobates auratus, with an Examination of Developmental Abnormalities.

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Errol Fred Mednik, of Silver Spring, Md.; B.S. Case Institute of Technology, 1967; M.S., 1970. Computer Science.

Michael R. Menaker, of Rockville, Md.; M.A. University of Maryland, 1969. Computer Science.

Robert C. Merrey, of Baltimore, Md.; B.A. Western Maryland College, 1971. Applied Physics

Kevin Scott Meyers, of Owings Mills, Md.; B.S. University of Maryland, 1981. Computer Science.

Christopher Bishard Miller, of Shadyshide, Md.; B.S. Capitol Institute of Technology, 1981. Computer Science.

Gregory Anthony Miller, of Ellicott City, Md.; B.S. University of Maryland, 1982. Electrical Engineering.

Robert David Miller, of Baltimore, Md.; B.A. The Johns Hopkins University, 1982. Computer Science.

William Ned Miller, of Laurel, Md.; B.A. Southwest State University, 1982. Computer Science.

Patricia Ann Mills, of Columbia, Md.; B.S. University of South Carolina, 1982. Computer Science.

Curtis Eugene Milton, of Glen Burnie, Md.; B.S. University of Akron, 1981. Electrical Engineering.

Keith Phillip Mitchell, of Baltimore, Md.; B.S.E. The Johns Hopkins University, 1978. Electrical Engineering.

Robert Dominic Morelli, of Columbia, Md.; B.S. University of Pittsburgh, 1979. Computer Science.

David P. Morrow, of Columbia, Md.; B.S.E. West Virginia University, 1969. Electrical Engineering.

Victoria Watkins Mosely, of Baltimore, Md.; B.A. Towson State University, 1974. Computer Science.

Kenneth Norman Moss, of Baltimore, Md.; M.A. Reed College, 1974; M.A. Cornell University, 1977; Ph.D., 1979. Computer Science.

Weylin Poy Moy, of Suitland, Md.; M.A. University of Maryland, 1978. Computer Science.

Kathy Murray, of Largo, Md.; B.S. University of Maryland, 1979. Computer Science.

Chandrashekhar D. Naik, of Columbia, Md.; B.Tech. Indian Institute of Technology, India, 1980; M.S. Cornell University, 1983. Computer Science.

John Wray Narer, of Pasadena, Md.; B.S. Virginia Polytechnic Institute and State University, 1982. Computer Science.

Kevin Russell Nary, of Columbia, Md.; B.S. College of William and Mary, 1982. Applied Physics.

Bambi Louann Nelms, of Laurel, Md.; B.S. University of Delaware, 1979. Computer Science.

Vincent Francis Neradka, of Rockville, Md.; B.S. University of Maryland, 1964; M.S., 1969. Technical Management.

Mallikarjun N. Netrakanti, of Silver Spring, Md.; B.S. University of Poona, 1980; M.S. Kansas State University, 1982. Computer Science.

James Marvin Newell, of Germantown, Md.; B.S. Old Dominion University, 1982. Applied Physics.

David Lawrence Neylan, of Columbia, Md.; B.S. University of Delaware, 1969. Technical Management.

Joseph Norton, of Edgewood, Md.; B.E. Stevens Institute of Technology, 1976. Environmental Engineering.

Michael David Nueslein, of Joppa, Md.; B.S. Loyola College, 1982. Electrical Engineering.

James William Nussbaum, of Laurel, Md.; B.S. University of Maryland, 1974. Computer Science.

Charles A. Ocheret, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1983. Electrical Engineering.

Timothy Robert Oechsler, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1981. Computer Science.

Yusuf Abdulhusain Officewala, of Alexandria, Va.; M.S. Massachusetts Institute of Technology, 1982. Computer Science.

Gerard N. O'Keefe, of Baltimore, Md.; B.A. Loyola College, 1981. Computer Science.

Russell Vincent Pagano, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1981. Computer Science.

Barbara Paisley, of Columbia, Md.; B.S. Columbia University, 1965. Computer Science.

Robert B. Palechek, of Gambrills, Md.; B.S.E. The Johns Hopkins University, 1969. Technical Management.

Gurusharan C. Pancholi, of Glen Burnie, Md.; B.E. S.V.R. College of Engineering, India, 1976. Environmental Engineering.

Shih-Min Sidney Pao, of Columbia, Md.; M.S. University of Texas at Arlington, 1983. Computer Science.

Barbara Susan Parks, of Columbia, Md.; B.S. Juniata College, 1983. Computer Science.

Mayer Zvi Pasternak, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1983. Computer Science.

Craig Robert Patterson, of Ellicott City, Md.; B.A. Franklin and Marshall College, 1982. Numerical Science.

Scott Jeffrey Patton, of Ellicott City, Md.; B.S. University of Cincinnati, 1983. Electrical Engineering.

John Scott Pawling, of Columbia, Md.; B.S. Vanderbilt University, 1983. Computer Science.

Duane R. Pawson, of Odenton, Md.; B.S. Northeastern University, 1982. Computer Science.

Judy Kay Pawson, of Odenton, Md.; B.S. Michigan State University, 1982. Computer Science.

David Robert Pedersen, of Ellicott City, Md.; B.S.E. Syracuse University, 1981. Electrical Engineering.

James Melvin Perry, Jr., of Glen Burnie, Md.; B.A. University of Maryland, 1981. Computer Science.

John Edward Peterson, of Arnold, Md.; A.S. Burlington Community College, 1980; B.S. University of Southern Alabama, 1983. Computer Science.

Joseph Robert Pick of Columbia, Md.; M.A. York University, 1975. Computer Science.

Ila Marie Pietsch, of Columbia, Md.; B.S. Pennsylvania State University, 1980. Computer Science.

Judith A. Porter, of Frederick, Md.; B.A. Hope College, 1971. Numerical Science.

Allan Stuart Posner, of Baltimore, Md.; B.A. The Johns Hopkins University, 1981; M.A., 1983. Computer Science.

Ramanarayan V. Potarazu, of Rockville, Md.; B.S. Oklahoma Christian College, 1982. Computer Science.

Richard S. Potember, of Catonsville, Md.; M.A. The Johns Hopkins University, 1977; Ph.D., 1979. Technical Management.

James Bradley Power, of Hanover, Md.; B.S.E. Michigan State University, 1982. Electrical Engineering.

Nicholas Augustus Prahl, of Gaithersburg, Md.; B.A. Harvard University, 1967. Computer Science.

Kathie D. Prescott, of Linthicum, Md.; B.S. Clemson University, 1983. Computer Science.

Raymond Foster Prescott, of Laurel, Md.; B.S. Appalachian State University, 1984. Computer Science.

Rebecca Battle Procter, of Laurel, Md.; B.S. North Carolina State University, 1982. Numerical Science.

Robert Gerard Quirk, of Baltimore, Md.; B.S. Massachusetts Institute of Technology, 1977. Technical Management.

Douglas James Rahikka, of Columbia, Md.; B.S.E.E. Rutgers University, 1976; B.S.E.E. The Johns Hopkins University, 1983. Computer Science.

Eugenia Edwards Reed, of White Marsh, Md.; B.S. Loyola College, 1979. Computer Science.

Allen Hoch Reid, of Saxonville, Mass.; B.A. St. John's College, 1966. Computer Science.

David Malcolm Restione, of Columbia, Md.; B.S. Lafayette College, 1978. Applied Physics.

William F. Reynolds, of Cockeysville, Md.; B.S.E. Bucknell University, 1981. Electrical Engineering.

Larry Ribakow, of Baltimore, Md.; B.T.L. Rabbinical College of Long Island, 1983. Computer Science.

Mary Robidoux, of Jessup, Md.; B.S. University of Maryland, 1981. Computer Science.

Elliot H. Rodberg, of Columbia, Md.; B.S. University of Maryland, 1982. Computer Science.

Michael George Rohleder, of Gaithersburg, Md.; B.S. Towson State University, 1974. Technical Management.

Roger Dale Rohr, of Gaithersburg, Md.; B.S. University of South Carolina, 1981. Computer Science.

Alan Richard Rosen, of Baltimore, Md.; B.S.E. The Johns Hopkins University, 1971. Computer Science.

Marie E. Rowland, of Davidsonville, Md.; B.A. Rosemont College, 1970. Computer Science.

Louis Anthony Rozzi, of Laurel, Md.; B.A. Merrimack College, 1973; M.S. Worcester Polytechnic Institute, 1975. Computer Science.

Colleen Ellen Russell, of Millersville, Md.; M.Ed. Towson State University, 1979. Computer Science.

Carl V. Ryba, of Silver Spring, Md.; B.E.E. Catholic University of America, 1980. Electrical Engineering.

Stephen H. Sachs, of Baltimore, Md.; B.S.E. The Johns Hopkins University, 1983. Electrical Engineering.

Salvatore Richard Scalco, of Olney, Md.; B.S.E. Capitol Institute of Technology, 1982. Technical Management.

Richard G. Schmalbach, of Timonium, Md.; B.S.E. Drexel University, 1981. Electrical Engineering.

Josef Andre Schmid, of Burtonsville, Md.; B.S.E.E. Capitol Institute of Technology, 1981. Computer Science.

Kenneth Martin Schmidt, of Columbia, Md.; B.S. University of Maryland, 1984. Electrical Engineering.

Timothy L. Schmidt, of New Freedom, Pa.; B.A. Towson State University, 1969. Computer Science.

Alan Leslie Schnell, of Laurel, Md.; B.S. College of William and Mary, 1979. Computer Science.

Thomas John Schoenleben, of Severna Park, Md.; B.S.M. University of Wisconsin, 1969; M.B.A. Arizona State University, 1970. Environmental Engineering.

Kristie Lee School, of Millersville, Md.; B.S.E. Michigan Technological University, 1981. Electrical Engineering.

Allen Jay Schulman, of Brooklyn, N.Y.; B.T.L. Aish Hatorah College, 1982. Computer Science.

Bernard Clarence Schweigman, Jr., of Laurel, Md.; B.S.E.T. Capitol, Institute of Technology, 1976. Computer Science.

Daryle Michael Seckar, of Mt. Airy, Md.; B.S. University of Maryland, 1978. Computer Science.

Darrel Gene Sell, of Elkridge, Md.; B.S. Kansas State University, 1982. Computer Science.

Theodore Price Shertzer, of Pasadena, Md.; B.S. Clemson University, 1966. Computer Science.

Mark E. Simpson, of Elkridge, Md.; B.S. University of Evansville, 1981. Electrical Engineering.

Jon Craig Sipos, of Baltimore, Md.; B.S. Lehigh University, 1981. Computer Science.

David John Sitter, of Baltimore, Md.; B.S.E. North Dakota State University, 1982. Electrical Engineering.

Beverly C. Smay, of Columbia, Md.; B.S. Elizabethtown College, 1977. Computer Science.

Frank L. Smith, of Jessup, Md.; B.E.T. Pennsylvania State University, 1982. Computer Science.

James William Smith, of Baltimore, Md.; B.A. University of Rochester, 1964; M.A. State University of New York at Buffalo, 1967. Computer Science.

Mary Beatrice Smith, of Baltimore, Md.; B.s. University of Colorado, 1974. Computer Science.

Steven Allen Smith, of Baltimore, Md.; B.C.E. University of Delaware, 1975. Computer Science.

Thomas Gerard Smith, of Gambrills, Md.; B.A. Boston College, 1983. Computer Science.

Richard Bryan Snavely, of Silver Spring, Md.; B.S. University of Michigan, 1979. Electrical Engineering.

Kenneth Sperka, of Baltimore, Md.; B.S. University of Detroit, 1965. Computer Science.

Judy Ann Sprague, of Bethesda, Md.; B.S. University of Maryland, 1972; M.S. Purdue University, 1975. Computer Science.

Theodor Stathis, of Mt. Airy, Md.; B.S.E.E. Hofstra University, 1975. Technical Management.

Joanne Marie Stellato, of Wheaton, Md.; B.S.E.E. Drexel University, 1983. Electrical Engineering.

Jill Ann Steppe, of Severna Park, Md.; B.S. Loyola College, 1982. Numerical Science.

Raymond E. Sterner, of Woodbine, Md.; M.S. The Johns Hopkins University, 1980. Computer Science.

William G. Strong, of Washington, D.C.; M.A. University of Virginia, 1981. Computer Science.

Paul G. Suchoski, of Cheverly, Md.; B.E.E. University of Florida, 1961. Technical Management.

Robert Alan Summers, of Dayton, Md.; M.S. The Johns Hopkins University, 1977. Technical Managemnet.

Glen T. Swanger, of Baltimore, Md.; B.S. Georgia Institute of Technology, 1980. Applied Physics.

Jean E. Tabaka, of Odenton, Md.; M.A. Michigan State University, 1978. Computer Science.

Janet Lynn Temple, of Glen Burnie, Md.; B.S.E. Michigan Technological University, 1982. Electrical Engineering.

Morton Herschel Tenenbaum, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1984. Computer Science.

James R. Thomas, of Sandy Spring, Md.; A.S. Capitol Institute of Technology, 1966; B.S. University of Maryland, 1976. Computer Science.

David Stewart Tillman, of Columbia, Md.; B.S. Purdue University, 1982. Electrical Engineering.

Louis Thomas Toth, of Germantown, Md.; B.S. Loyola College, 1979. Electrical Engineering.

Joseph McMurray Transue, of Elkridge, Md.; B.S.E. Drexel University, 1982. Electrical Engineering.

Joseph James Travisano II, of Baltimore, Md.; B.S. Drexel University, 1982. Computer Science.

Fred Albert Trenkle, of Timonium, Md.; B.A. University of Maryland, 1975. Computer Science.

Jeffrey Wayne Trout, of Hanover, Md.; B.S.E. Massachusetts Institute of Technology, 1968. Electrical Engineering.

Elizabeth Suet Hing Tse-Au, of Edgewood, Md.; B.S. Tufts University, 1981. Computer Science.

Overton Malcolm Tuck, of Mt. Airy, Md.; B.S. Virginia Polytechnic Institute, 1970. Technical Management.

James M. Unterreiner, of Mitchellville, Md.; B.A. University of Connecticut, 1974. Computer Science.

Nitin Vishnupant Uplekar, of Silver Spring, Md.; B.S. Indian Institute of Technology, India, 1978; M.S. Syracuse University, 1980. Computer Science.

Mark David Vallon, of West Frederick, Md.; B.S. Northeastern University, 1975. Computer Science.

Roger Larry Van Scoy, of Pasadena, Md.; B.A. Hiram College, 1980. Applied Physics.

John A. Veasey, of Laurel, Md.; B.S. University of Maryland, 1983. Computer Science.

Joseph Henry Verbisk, of Jefferson, Md.; B.S. University of Pittsburgh, 1978. Computer Science.

Joseph Francis Vesey, of Silver Spring, Md.; B.S. Columbia University, 1956; M.S. Stevens Institute of Technology, 1963. Computer Science.

David Vogel, of Washington, D.C.; B.A. Herbert H. Lehman College, 1974. Computer Science.

Christopher John Vogt, of Eldersburg, Md.; B.S. University of Maryland, 1978. Numerical Science.

Kishore N. Vora, of Annandale, Va.; M.S. Tufts University, 1969. Technical Management.

Richard O. Waagbo, of Ellicott City, Md.; B.S.E.E. Fairleigh Dickinson University, 1961. Technical Management.

James Waclawski, of Columbia, Md.; B.S.E. Worcester Polytechnic Institute, 1981. Electrical Engineering.

Trudy Lund Wadsworth, of Jessup, Md.; B.S. Randolph-Macon College, 1982. Computer Science.

William Robert Waldeck, of Columbia, Md.; B.S. University of Michigan, 1982. Computer Science.

Renee Felice Walton, of Elkridge, Md.; B.S. University of Alabama, 1982. Electrical Engineering.

Jun-Len Janny Wang, of Adelphi, Md.; B.S. National Taiwan Normal University, 1969. Computer Science.

Stephen Kuo-Liang Wang, of Columbia, Md.; B.S.M.E. National Taiwan University, 1976; M.S.M.E. University of Wisconsin, 1982. Electrical Engineering.

Patricia Morris Webb, of Gambrills, Md.; B.S. University of Maryland, 1975; M.S. Troy State University, 1977; M.S. The Johns Hopkins University, 1981. Computer Science.

Robert Paul Weisser, of Baltimore, Md.; M.M. The Johns Hopkins University, 1973. Computer Science.

Randall Michael Wesolowski, of Millersville, Md.; B.A. University of Maryland, Baltimore County, 1976. Computer Science.

Gregory L. Wessel, of Millersville, Md.; B.S. University of Maryland, 1982. Computer Science.

Mark William Westerdale, of Glen Burnie, Md.; B.S.E. University of Missouri, 1976. Computer Science.

Edward Mark Westling, of Chester, Md.; B.S. University of Florida, 1978. Electrical Engineering.

Gregg J. White, of Columbia, Md.; B.S. University of Pennsylvania, 1980. Computer Science.

Melvin Joseph White II, of Gaithersburg, Md.; B.S.E.E. Lafayette College, 1974. Computer Science.

Richard Sewall White, of Severna Park, Md.; A.A. Capitol Institute of Technology, 1980; B.S., 1982. Electrical Engineering.

Arthur William Wilson, of Columbia, Md.; B.S. Drexel University, 1983. Computer Science.

Robert Jeffrey White, of Jarrettsville, Md.; B.S.E.E. Ohio University, 1971. Computer Science.

Ralph Alan Whitehurst, of Ft. Meade, Md.; A.A. Mesa Community College, 1980; B.S. Brigham Young University, 1983. Computer Science.

Frank Holbrook Whitney, of Laurel, Md.; B.A. University of Maryland, 1972. Computer Science.

Robert Whyms III, of Ellicott City, Md.; B.S.E.E. University of Florida, 1981. Electrical Engineering.

Hans Peter Widmer, of Germantown, Md.; B.Engr. Concordia University, 1978. Technical Management.

Leonard J. Williams, of Columbia, Md.; B.S.E. University of Pennsylvania, 1980. Computer Science.

Carolyn Ann Williams, of Baltimore, Md. Computer Science.

Stephen Ray Williamson, of Catonsville, Md.; B.S.E. University of Akron, 1982. Electrical Engineering.

Diana Katharyn Wittenbreder, of Havre de Grace, Md.; B.S. Millersville University, 1970. Computer Science.

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John Wojtowicz, of Eldersburg, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1981. Electrical Engineering.

Steven P. Wong, of Silver Spring, Md.; B.A. University of California at Los Angeles, 1979. Numerical Science.

Daniel Nicholas Yannuzzi, of Columbia, Md.; B.E.E. University of Delaware, 1982. Electrical Engineering.

Hsi Ping Yen, of Rockville, Md.; B.S. National Chung-Hsing University, 1971; M.S. University of Maryland, 1979. Computer Science.

Robert Charles Yienger, of Baltimore, Md.; B.S.E. University of Maryland, 1981. Electrical Engineering.

Joann Marie Yokel, of Gaithersburg, Md.; B.S. Carnegie-Mellon University, 1982. Computer Science.

Catherine Rae Zakary, of Laurel, Md.; B.S. Virginia Polytechnic Institute and State University, 1983. Numerical Science.

Joseph Gary Zebrook, of Glen Burnie, Md.; B.S. University of Delaware, 1971, 1982. Computer Science.

Mark Zehnwirth, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1982. Computer Science.

MASTERS OF SCIENCE IN ENGINEERING

in The G.W.C. Whiting School of Engineering

Joanne Sue Barker, of Milwaukee, Wis.; B.S. Northwestern University, 1984. Geography and Environmental Engineering.

Jeffrey Becker, of El Cerrito, Calif.; B.S. University of California at Berkeley, 1982. Biomedical Engineering.

A Study of the Kinematics of the Human Hand with Applications to Robot Hand Design.

Douglas Miller Blough, of Schenectady, N.Y.; B.S. The Johns Hopkins University, 1984. Electrical Engineering and Computer Science.

Kathleen Ruth Breen, of Baltimore, Md.; B.S. University of Rochester, 1976.

Analysis of Ultrasonic Alteration of Aluminum Single Crystal by Electron Channeling Techniques.

Susan Phippen Bauxbaum, of Hull, Mass. Chemical Engineering.

Thermal Diffusion Cloud Chamber Studies of Unimolecular Decomposition Reactions.

Christopher Calingaert, of Chapel Hill, N.C. Electrical Engineering and Computer Science.

Joseph E. Cannon, of Philadelphia, Pa.; B.S. LaSalle College, 1972. Electrical Engineering and Computer Science.

Kenneth Stanley Cantwell, of Clermont, Fla.; A.A. Lake Sumter Community College, 1977; B.S. Furham University, 1981. Mathematical Sciences.

Howard Chen, of Baltimore, Md. Mechanical Engineering.

Thermo-plastic Instability in Antiplane Shear Deformation.

Risana Tasnim Chowdhury, of Kushtia, Bangladesh; B.A. Scripps College, 1984. Mathematical Sciences.

Gordon Dickinson Cobb, of Fairfax, Va.; B.S. Carnegie-Mellon University, 1983. Geography and Environmental Engineering.

Ruth Hecht Colombo, of Baltimore, Md.; B.A. The Johns Hopkins University, 1979. Mathematical Sciences.

John Broddus Deaton, Jr., of Richmond, Va.; B.E.S. The Johns Hopkins University, 1983. Materials Science and Engineering.

Remote Optical Measurement of Angular Displacement: A Novel Fracture Mechanics Application.

Nishan DerSimonian, of Beirut, Lebanon; B.A. Brandeis University, 1984. Mathematical Sciences.

Fazl Ehsan, of Dhaka, Bangladesh. Civil Engineering.

Gregory Allan Fabella, of Baltimore, Md.; B.S. The Johns Hopkins University, 1985. Electrical Engineering and Computer Science.

Sets of Points Without Empty Convex Hexagons.

Jeffrey Alan Goldman, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1982. Materials Science and Engineering.

Investigations of Property/Microstructure Relationships in Thick Film Resistor Materials.

Martin Robert Hall, of Carmel, Ind.; B.E.S. The Johns Hopkins University, 1984. Electrical Engineering and Computer Science.

Zia Ul Haq, of Dacca, Bangladesh; B.S. Northwestern University, 1982. Chemical Engineering.

Superheat Limits of Non-Ideal Liquid Mixtures and Thermally Induced Nucleation of Benzocylobutenol.

Joanne Frances Houlahan, of Blue Bell, Pa.; B.S. Chestnut Hill College, 1984. Electrical Engineering and Computer Science.

Randolph Joseph Hugenroth, of Pensacola, Fla.; B.S. United States Naval Academy, 1985. Electrical Engineering and Computer Science.

Morris Schnapp Israel, of Potomac, Md.; B.S. The Johns Hopkins University, 1984. Civil Engineering.

Probabilistic Basis of Partial Resistance Factors for Use in Concrete Design.

Vasantha Arunasalam Kandasamy, of Jaffna, Sri Lanka; B.Sc. Engineering of Peradenlya, Sri Lanka, 1982. Civil Engineering.

Aspects of the Natural Wind Conditions at the Golden Gate Bridge.

Robert Gary Kelly, of Philadelphia, Pa.; B.E.S. The Johns Hopkins University, 1984. Materials Science and Engineering.

The Determination of the Rate Limiting Mechanism in Lithium/Iodine (P2VP) Batteries.

Dmitry Krass, of Novosubirsk, U.S.S.R. Mathematical Sciences.

Peter Kroll, of Passaic, N.J.; B.A. The Johns Hopkins University, 1976. Geography and Environmental Engineering.

Carl John Mahle, Jr., of Baltimore, Md.; B.S. University of Maryland, 1974. Electrical Engineering and Computer Science.

A Simulation and Measurement Approach to Distributed System Modeling.

Hans Ulrich Mair, of Baltimore, Md.; B.S. Loyola College, 1982. Mechanical Engineering.

Thermal Fields in Dynamic Mode III Fracture.

Roy Chrisopher Mathias, of Calcutta, India; B.A. Corpus Christi College at Cambridge England, 1984. Mathematical Sciences.

Karen Winnifred McGhee, of Oxford, N.C.; B.S. University of Notre Dame, 1984. Electrical Engineering and Computer Science.

Jennifer Mary O'Connor, of Croton-on-Hudson, N.Y.; B.S. The Johns Hopkins University, 1984. Civil Engineering.

Reliability Measures for Simple Nonlinear Structures Subjected to Seismic Loading.

Stephen Gordon Pimentel, of Knoxville, Tenn. Electrical Engineering and Computer Science.

Timothy Premack, of Columbia, Md.; B.S.E. University of Pennsylvania, 1980. Mechanical Engineering.

A Rule Based Computed Aided Design System.

Robert James Quinton, of Jamaica, West Indies; B.S. United States Naval Academy, 1985. Electrical Engineering and Computer Science.

Jill Elaine Schmidt, of Highland, N.J.; B.S. The Johns Hopkins University, 1985.

Felix Sepp Seebacher, of Rottenmann, Austria; Diploma University of Agriculture, Vienna, Austria, 1979; Diploma, International Institute for Hydraulic and Environmental Engineering, Delft, Netherlands, 1982. Geography and Environmental Engineering.

Subhash Suri, of Baltimore, Md.; B.E. University of Roorkee, India, 1981. Electrical Engineering and Computer Science.

Christine Louis Tiller, of St. Louis Park, Minn.; B.S. California Institute of Technology, 1985. Geography and Environmental Engineering.

John Paul Wright, Jr., of Roswell, N.M.; B.S. University of Houston, 1984. Geography and Environmental Engineering.

Thomas Yongmin Yi, of Albany, Calif. Chemical Engineering.

A Theoretical Investigation of Patterns of Reactivity in Endothermic Retroene Reactions of Coal Model Compounds.

Ben P. Yuhas, of Syracuse, N.Y.; B.A. University of Chicago, 1981. Electrical Engineering and Computer Science.

MASTER OF ARTS

in The G.W.C. Whiting School of Engineering

Robert Nicholas Andrei, of Baltimore, Md.; B.S. Virginia Polytechnic Institute and State University, 1981. Geography and Environmental Engineering.

Robert Lee Johnson, of Paledonia, Mich.; B.S. Calvin College, 1981. Geography and Environmental Engineering.

Martha Nadia Jarosewich, of Silver Spring, Md.; B.S. University of Maryland, 1980. Geography and Environmental Engineering.

Correspondence of Historical Land Use, Meterological Events and Sediment Accumulation in Furnace Bay, Maryland.

MASTERS OF ARTS

in The School of Arts and Sciences

Jonathan Seth Adams, of New Haven, Conn.; B.A. Columbia University, 1983. Writing Seminars.

Experiment or Interpretation: The Scientific Status of Psychoanalysis.

Margaret Kate Aisenberg, of Boston, Mass. English.

Susan Rose Aisenstein, of Philadelphia, Pa.; B.A. Bryn Mawr College, 1979. Political Economy.

Reiner Ansen, of Pfalz, West Germany. German.

Ned Clark Balbo, of Mineola, N.Y.; B.A. Vassar College, 1981. Writing Seminars.

At the Aerodrome.

Martin Besancon, of Paris, France. French.

Glenn Leo Blake, of Liberty, Texas; A.A. Lee College, 1976; B.A. Rice University, 1979; M.A. University of Houston, 1984. Writing Seminars.

Old River.

Brandon Lisa Bond, of Baltimore, Md. Sociology.

James Richard Boylan, of Upper Darby, Pa.; B.A. Wesleyan University, 1980. Writing Seminars.
Potter's Field.

William Stanley Burgett, of Norman, Okla.; B.A. University of California at Berkeley, 1977. Physics and Astronomy.

Catherine Jean Campbell, of Baltimore, Md.; B.A. University of Toronto, 1983. History of Art.

Mirtha Capiro, of Miami, Fla.; A.A. Miami-Dade Community College, 1981; B.S. University of Miami, 1984. Earth and Planetary Sciences.

Rebecca Williams Carmody, of Biloxi, Miss.; B.S. University of Connecticut, 1984. Earth and Planetary Sciences.

Genesis Sy-Shyan Chen, of Taipei, Taiwan; B.Bus. Admin. National Taiwan University, 1980. Political Science.
The Developmental Path of Taiwan: An Alternative Interpretation.

Kee Nam Cheung, of Baltimore, Md.; B.S. Oregon State University, 1974; M.S., 1976; M.S. University of Wisconsin at Madison, 1980. Political Economy.

Yuan-Jen Chiang, of Baltimore, Md.; B.Sc. National Taiwan Normal University, 1979. Mathematics.

Jinhyung Chu, of Baltimore, Md.; B.A. Seoul National University, 1981. Political Economy.

Eileen Gale Claar, of Osterburg, Pa.; B.S. University of Pittsburgh at Johnstown, 1984. Biophysics.

Michael Charles Clive, of New York, N.Y.; B.A. Fairleigh Dickinson University, 1973. Writing Seminars.
Views of the 1985-1986 Musical Season.

Thomas Patrick Cole, of Baltimore, Md.; B.A. Vassar College, 1983. History.

Luz Noemi Curet, of Santurce, Puerto Rico; B.A. University of Puerto Rico, 1980; M.A. New York University, 1982. Hispanic and Italian Studies.

Thomas Ernest Abell Dale, of Baltimore, Md.; B.A. University of Toronto, 1984. History of Art.

John Coleman Darnell, of Prattville, Ala.; B.A. The Johns Hopkins University, 1984. Near Eastern Studies.
Studies on the Reign of Thutmosis I.

Pablo Julian Davis, of New York, N.Y.; B.A. University of Maryland, 1981. History.

Matthew Todd DeLand, of Ann Arbor, Mich.; B.A. Washington University, St. Louis, 1983. Physics and Astronomy.
Solar Ultraviolet Emissions from Jupiter.

Bernd Dornseifer, of Bielefeld, Germany. History.
Factors in the Institutional Development of a University: The Johns Hopkins University, 1889-1929.

Marty John Duvall, of Westminster, Md.; B.S. Muhlenberg College, 1984. Chemistry.

Mark Michael Easton, of Arlington, Va.; B.A. Columbia University, Near Eastern Studies.
The Political Process in the Old Kingdom: Absolutism vs. Aristocracy.

Dan Samuel Edidin, of Baltimore, Md. Mathematics.

Bruce Lee Elliott, of Baltimore, Md.; B.A. St. John's College, 1982. Physics and Astronomy.

Katherine Lynn Eubanks, of Boynton Beach, Fla. Writing Seminars.
Interfaces: Contemporary and Historical Perspectives on Medicine.

Joseph Dominic Falvo, of Annandale, Va.; B.A. Loyola University, Louisiana, 1974; M.A. Catholic University of America, 1977; M.A., 1979. Hispanic and Italian Studies.
The Economy of Human Relations in Castiglione's Libro del Cortegiano.

Robert Daniel Feinstein, of Albany, N.Y. History.
The Reception of Adam Smith's Wealth of Nations in England and Scotland, 1800-1850.

Julie Deane Fishbein, of Baltimore, Md.; B.A. The Johns Hopkins University, 1981. Writing Seminars.
One Foot in the Feathergrass.

Laura Moleski Franc, of Orchard Park, N.Y.; B.A. State University of New York at Buffalo, 1983. French.

Marcie Andrea Frank, of Detroit, Mich. English.

David Spotts Fry, of Mechanicsburg, Pa. Mathematics.

Sylvia Fuchsel, of Bielefeld, Germany. History.
The Breakdown of Authoritarianism and the Return to Democracy in Argentina: Regime Transformation and Political Changes Between 1976 and 1985.

Lynn Satoko Fujise, of Honolulu, Hawaii; B.S. Harvey Mudd College, 1983. Chemistry.

Alessandra Galizzi, of Baltimore, Md. History of Art.

Andrew D. Gavrin, of New Rochelle, N.Y. Physics and Astronomy.

Jan Ruth Gehorsam, of New York, N.Y. Writing Seminars.
Night Country.

Jay Michael Gillen, of Baltimore, Md.; B.A. Yale University, 1981. Humanities.

Sigurour Reynir Gislason, of Reykiavik, Iceland; B.S. University of Iceland, 1980. Earth and Planetary Sciences.
Meteoric Water-Basalt Interactions: Field and Laboratory Study.

Herbert Sydney Guggenheim, of Washington, D.C.; B.A. New College, 1978; M.A. American University, 1980; Ph.D. University of Southern Mississippi, 1983. Writing Seminars.
Tranquility Base.

Chaibong Eric Hahm, of Seoul, Korea.; B.A. Carlton College, 1980. Political Science.
South Korea vs. Taiwan: Debt Led vs. Export Led Growth: A Comparative Analysis of Economic Development Patterns.

Richard Lewis Hall, Jr.; B.A. The Johns Hopkins University, 1984; M.A., 1984. Writing Seminars.
In Africa We Are Free: Black Americans in Maryland in Liberia.

Mary Virgene Hanna, of Fairbanks, Alaska; B.A. Soma State College, 1973. Sociology.

Elizabeth Hanson, of Baltimore, Md.; B.A. University of Toronto, 1978. English.

Maureen Anne Harkin, of Baltimore, Md. History of Art.

Mark Thomas Harris, of Corington, Ky.; B.S. University of Rochester, 1978; M.S. University of Wisconsin, 1982. Earth and Planetary Sciences.

Joseph Hobson Harrison III, of Baltimore, Md. English.

Rebecca Gault Heumann, of Bloomington, Ind. German.

Pamela Elizabeth Hinkle, of West Hartford, Conn.; B.A. Connecticut College, 1981. Philosophy.

Bonnie Helen Honig, of Montreal, Canada; B.A. Concordia University, 1980; M.S. University of London, 1981. Political Science.
Beyond Porcupine Liberalism: The Concept of Respect for Persons in the Moral and Political Philosophies of Immanuel Kant and Thomas Hill Green.

Amy Jo Hostetler, of Hershey, Pa.; B.A. Lebanon Valley College, 1984. Writing Seminars.
The Heart of a Halfway Technology.

Bruce James Hrnjez, of Norfolk, Va. Chemistry.
Synthetic Approaches to Macrobicyclic Allenes and Alkenes.

Lisa Ijiri, of Palo Alto, Calif. Psychology.
A Developmental Perspective on Cognitive Mechanisms in Number Processing and Calculation.

Hiroyuki Imai, of Baltimore, Md.; B.A. Keio University, 1974; M.A. University of Michigan, 1982. Political Economy.

Syed Arif Kamal, of Hyderabad, Pakistan; M.S. Indiana University, 1982. Physics and Astronomy.
The Effects of Magnetic Field on Scale Formation.

Ben Keith Kaneda, of Baltimore, Md.; of B.A. Pennsylvania State University, 1976; M.A. University of Washington at Seattle, 1980. Earth and Planetary Sciences.

Andrew Z. Katz, of New York, N.Y.; B.A. Brandeis University, 1980. Political Science.
Public Opinion, Congress and the Termination of the Vietnam War.

Elizabeth Sharon Kelly, of Villanova, Pa. Humanities.

John Christopher Kilgallon, of Baltimore, Md. Psychology.
Testing the Elaboration Hypothesis of Memory for Faces.

David Joseph Seymour King, of Baltimore, Md.; B.A. Yale University, 1980. History.

Alouette G. Kluge, of New York, N.Y.; B.A. Radcliffe College, 1981. Political Science.
Nuclear Deterrence and Just War Theory.

William Bergen Kouwenhoven, of Baltimore, Md. Humanities.

Eliot Franklin Krieger, of Laguna Beach, Calif.; B.A. University of California at Los Angeles, 1981. Philosophy.

John Francis Krizmanic, of Joliet, Ill.; B.A. Northwestern University, 1983. Physics and Astronomy.

Dirk Franz Kroegel, of Berlin, Germany; M.A. Freie Universitat, Berlin, 1984. Political Science.
Zbigniew Brzezinski as National Security Adviser: The Fall in Power from Kissinger Era.

Robin D. Kundis, of Long Beach, Calif.; B.A. Pomona College, 1985. Writing Seminars.
Human Chemistry.

Fred Gifford Leebron, of Philadelphia, Pa.; B.A. Princeton University, 1983. Writing Seminars.
Houses.

Debbie Ann LeMieux, of Kalamazoo, Mich.; B.A. University of Massachusetts at Boston, 1985. Writing Seminars.
The Wanderer.

Jean Cara Lenihan, of New York, N.Y. Writing Seminars.
We Were Alone.

Nikia Clark Leopold, of Washington, D.C.; B.A. Smith College, 1967; Ph.D. The Johns Hopkins University, 1979. Writing Seminars.
Found Objects.

Andrew Gordon Levy, of Mt. Holly, N.J.; B.A. Brown University, 1984. Writing Seminars.
Halfway House.

Gordon Jonathan Lewis, of Santurce, Puerto Rico. History.
Black Utopias and White Babylones: The Paradoxies of Thought and Practice on City and Countryside in South Africa, 1860-1930.

Jeanne Ann Lindquist, of Lawrenceville, Ga.; B.S. University of Georgia, 1982. Biology.

William Aaron Lyle, of Schenectady, N.Y.; B.S. College of William and Mary, 1983. Physics and Astronomy.

John Anthony Maltese, of Baltimore, Md.; B.A. Duke University, 1982. Political Science.
The Office of Communications: Its Functional Evolution.

Elizabeth Mancke, of Atlanta, Ga.; B.A. Colorado College, 1977; M.A. University of British Columbia, 1984. History.

Marian Frances Matrician, of Baltimore, Md.; B.A. University of Texas at Austin, 1977. History.

Labor Roles of Women in Late Medieval Cologne.

Luigina Mattioli, of Mantova, Italy. Political Economy.

Wealth and Value—A Critique of the Economics of Justice.

Brian Alexander MacDonald, of Newton, Mass. Mathematics.

Douglas Frank McDonald, of Iowa City, Iowa; B.A. College of Wooster, 1980. Political Economy.

Tyrus Henry Miller, of San Francisco, Calif. Humanities.

Christine Mullin, of Staten Island, N.Y.; B.A. Marymount Manhattan College, 1975. Writing Seminars.

Falling.

Paul Andrew Mullin, of Amherst, Mass.; B.A. Carleton College, 1984. Psychology.

In Seung Nam, of Seoul, Korea; B.S. Seoul National University, 1980. Earth and Planetary Sciences.

William Maher Nelson, S.J., of Baltimore, Md.; B.S. University of North Carolina at Chapel Hill, 1976; M.A. Washington University, 1982. Chemistry.

Jonathan Allan Neuberger, of Baltimore, Md.; B.S. Georgetown University, 1978. Political Economy.

Edith Newton, of Macon Ga.; B.A. Dartmouth University, 1982. Earth and Planetary Sciences.

Chau Trung Nguyen, of Thai Binh, Viet Nam; M.S. Millersville State College, 1981. Earth and Planetary Sciences.

Naoko Nishimura, of Baltimore, Md. Political Economy.

Nancy Marie Nobile, of New Haven, Conn.; B.A. Wesleyan University, 1982. German.

Yuhtaro Ohmori, of Baltimore, Md.; B.A. Keio University, 1976; M.A., 1979. History.

Yasuko Ohno, of Paris, France. History of Art.

Lisa Marie Orange, of Lakewood, Ohio; B.A. Case Western Reserve University, 1985. Writing Seminars.

The Past and Future of Manned Space Flight.

Suzanne Claire Page, of Milton, N.Y.; B.A. Reed College, 1984. Psychology.

Mark William Palen, of Amsterdam, N.Y.; B.S. United States Military Academy, 1977. Philosophy.

Tony Douglas Peterson, of Calgary, Canada. Earth and Planetary Sciences.

Adrianne Ellen Pierce, of Baltimore, Md. Classics.

Charles Lee Pizer, of Peoria, Ill.; B.A. Indiana University; M.P.A. Southern Illinois University, 1981. Political Science.

Political Behavior and the Public Philosophy: Congress, the Presidency and the Role of Public Opinion.

John Frank Possidente, of Baltimore, Md.; B.A. The Johns Hopkins University, 1985. Writing Seminars.

Some Lives of Science.

Adam Stanley Potkay, of Jersey City, N.J.; B.A. Cornell University, 1982. English.

Zi-quang Qiu, of Beijing, China; B.S. Peking University, 1984. Physics and Astronomy.

Kenneth M. Reinhard, of Chicago, Ill.; B.A. University of California at Santa Cruz, 1981. English.

Kathryn Emery Rhett, of Utica, N.Y.; B.A. The Johns Hopkins University, 1984. Writing Seminars.

Bodies of Water.

Susan Patricia Rochester, of San Diego, Calif.; B.A. York University, 1983. History.

On Josiah Royce: A Philosopher's Historical Thought.

Elizabeth Ellen Roettger, of Patterson, N.J.; B.A. Hiram College, 1983. Physics and Astronomy.

Charles C. Rutheiser, of Hempstead, N.Y.; B.A. New College, 1983. Anthropology.

Phyllis Ryder, of Ouagadougou, Upper Volta. Writing Seminars.

Down the Highway Barefoot.

Haydee Salmun, of Buenos Aires, Argentina; M.S. University of Missouri, 1980. Earth and Planetary Sciences.

Benigno Ramon Sanchez-Eppler, of Patibanico. Cuba; B.A. Williams College, 1979; M.Phil. University of Cambridge, 1983. Hispanic and Italian Studies.

Karen Jill Sanchez-Eppler, of Baltimore, Md.; B.A. Williams College, 1981. English.

Suzanne Carol Senay, of Baltimore, Md.; B.A. Yale University, 1981. Philosophy.

Linda Ann Shaw, of Atlanta, Ga. Writing Seminars.

Face Absent.

Constance Joanna Sheldon, of Alexandria, Va.; B.A. Cornell University, 1975. German.

Deanna Marie Shemek, of Lincoln, Neb.; B.A. University of Nebraska at Lincoln, 1981. Hispanic and Italian Studies.

Sydney Jocelyn Shep, of Baltimore, Md.; B.A. University of Toronto, 1982. English.

Stergios Skaperdas, of Baltimore, Md.; B.A. Reed College, 1982. Political Economy.

Janet Skelton, of Norwalk, Conn. Writing Seminars.

The Ecology of Aids.

Joseph Taylor Snodgrass, of Solana Beach, Calif.; B.S. Case Western Reserve University, 1980. Chemistry.

Scott Michael Sokol, of New Windsor, N.Y.; B.A. Brandeis University, 1984. Psychology.

Thomas Joseph Staudter, of New York, N.Y.; B.A. University of Pennsylvania, 1981. Writing Seminars.
Profound as the Grave.

Alfred Gerard Stern, Baltimore, Md.; B.S. Stockton State College, 1977; M.S. University of Maryland, 1979. Chemistry.

Frederick Henry Streitz, Jr., of Clearwater, Fla. Physics and Astronomy.

Raymond Chien Sun, of Baltimore, Md.; B.A. Swarthmore College, 1982. History.

Mary Jane Sundius, of Baltimore, Md.; B.A. Yale University, 1978. Public Policy.
School-Based Budgeting and Management: Policy Analysis and Recommendations.

Douglas Richard Swift, of Bridgeport, Conn.; B.A. University of Bridgeport, 1985. Writing Seminars.
The Old Road.

Joanne Kathryn Tangorra, of New York, N.Y.; B.A. Hofstra University, 1977. Writing Seminars.
An Eye to the Lightning.

Yang Tong, of Peking, China. Political Science.
Economic Development and Political Development in China, 1978-1984.

Thomas Robert Towns, of Fort Wayne, Ind.; B.S. St. Louis University, 1980. Near Eastern Studies.

Jenn-Hwa Tu, of Tainan, Taiwan; B.S. National Taiwan University, 1977; M.A. Thammasat University, 1981. Political Economy.

Hiroshi Ueno, of Baltimore, Md.; B.E. Tohoku University, 1964; M.E. Tokyo University, 1966; M.A. Massachusetts Institute of Technology, 1975. Political Economy.

Eberle Ann Umbach, of Lake Forest, Ill.; B.A. Oberlin College, 1983. Writing Seminars.
Woman Without Arms.

Monica Maria Van Beusekom, of Baltimore, Md.; B.A. Tufts University, 1982. History.

Wyger Rykele Velema, of Baltimore, Md. History.

Nathalie Villard, of Paris, France; Diploma The Johns Hopkins University, 1984. Political Science.
Antonio Gramsci's Political Thought and the Immediate Post-War PCI Strategy.

Martine Carmen Voiret, of Paris, France; License Amiens University, 1978; M.A. Duke University, 1982. French.

Leslie David Wade, of Oklahoma City, Okla.; B.A. University of Washington, 1982. Classics.

Gwendolyn I. Walden, of Chicago, Ill. History.
Investigations in Western Marxist Cultural Criticism: The Aesthetics of George Simmel.

William George Walker, of Baltimore, Md.; B.A. University of Western Ontario, 1981; M.A., 1982. English.

Li-Shing Wang, of Taipei, Taiwan; B.A. National Taiwan University, 1982. Political Science.
The Meiji Restoration and the Hundred Days Reform.

William Parker Webb, of Providence, R.I. Writing Seminars.
Layouts.

Clifford Kent Weber, of Baltimore, Md. History.
The Reluctant Profession: The Origins of the Founding of the First American School of Public Health.

Steven Mitchell Wells, of South Boston, Va. Writing Seminars.
Noisy Desperation.

Thomas Welskopp, of Bochum, West Germany. History.
Approaching Class Structures: Social Relations in the U.S. and German Steel Mills from the 1860's to the 1920's.

Christine Daniels Whitman, of Detroit, Mich.; B.A. University of Michigan, 1976; M.A. Stanford University, 1978. History.

Dwight Sifri Wilson, of Nenton Square, Pa.; B.A. The Johns Hopkins University, 1985; B.E.S., 1985. Mathematics.

Rachel Kathleen Wolford, of Dallas, Texas. History.
What a Woman might say of God in an Hour: Piety and Gender in the Writings of Julian of Norwich and Margery Kempe.

Ingrid Chyong-Hwa Wu, of Taipei, Taiwan; B.A. The Johns Hopkins University, 1985. Sociology.

Yogi Yamaguchi, of Kearny, N.J. Writing Seminars.
War Stories.

An-Suei Yang, of Baltimore, Md.; B.S. National Tsing Hua University, 1979. Chemistry.

Ji Jeng Yang, of Hsin-Chu, Taiwan; B.S. Taiwan Provincial College of Marine and Oceanic Technology, 1976. Earth and Planetary Sciences.

Arie Shloma Zmora, of Haifa, Israel. History.

Nurith Zmora, of Baltimore, Md.; B.A. Hebrew University of Jerusalem, 1975. History.
French Anti-Italian Prejudices During the "Fonde" 1648-1650 Myth or Legend.

DOCTORS OF EDUCATION

in The School of Continuing Studies

Frona Alice Holzman Brown, of Baltimore, Md.; B.A. Goucher College, 1965; M.L.A. The Johns Hopkins University, 1970; M.Ed., 1976.

The Prediction of Persistence, Success, and Achievement in a Developmental Arithmetic Course at an Urban Community College.

Barbara Bateman Heinfelden, of Baltimore, Md.; B.S. West Chester State University, 1968; M.Ed. Towson University, 1980.

A Validity Study of Fifteen Discrepancy Procedures for Classifying Children as Learning Disabled.

Diane Barbara Jacobs, of Baltimore, Md.; B.A. Towson State University, 1971; M.L.A. The Johns Hopkins University, 1973; C.A.S.; 1979.

The Effects of a Writing Mentorship Program upon the Career Selections, Attitude, and Opinions of Gifted and Talented High School English Students.

Catherine Ann Ritter, of Towson, Md.; B.A. Goucher College, 1958; C.A.S. The Johns Hopkins University, 1964; M.Ed., 1969.

The Prediction of Persistence, Success, and Achievement in a Developmental Reading Course at an Urban Community College.

Anne Catherine Smith, of Baltimore, Md.; M.A. Gallaudet College, 1978.

The Effects of Extended School Year Programming on Skill Acquisition and Aberrant Behaviors of Children with Rett Syndrome.

Dianne Hodas Tobin, of Columbia, Md.; B.A. Barnard College, 1960; M.A. Columbia University, 1962; M.Ed. The Johns Hopkins University, 1979.

A Longitudinal Study of Values and Career Interests of Mathematically Gifted Students.

Donna Gilles Williams, of Silver Spring, Md.; B.S. University of Maryland, 1975; M.S. The Johns Hopkins University, 1980.

The Use of Alternating Treatments Design to Compare Blissymbol-to-Referent Matching Tasks and Photograph-to-Matching Tasks in Individuals with Severe Mental Retardation.

DOCTORS OF MUSICAL ARTS

in The Peabody Conservatory of Music

Linda Apple-Monson, of Richfield, Penna.; B.M. Peabody Conservatory of Music, 1979; M.M., 1981. Piano.

The Solo Piano Music of Ross Lee Finney.

John Randal Hawkins, of Baltimore, Md.; B.M. Furman University, 1978; M.M. Peabody Conservatory of Music, 1980. Piano.

Components and Processes in Composition for the Player-Piano: Selected Works by Edward Oswald Schaaf.

Marmaduke S. Miles, of Durham, N.C.; B.M. Georgia Southern College, 1972; M.M. Southern Methodist University, 1974. Piano.

The Solo Piano Music of Mrs. H. H. A. Beach.

Jacques C. Voois, of West Chester, Penna.; B.M. Oberlin Conservatory of Music, 1958; M.M. Manhattan School of Music, 1963. Piano.

Leon Barzin, America's Pioneer Orchestra Trainer.

DOCTORS OF SCIENCE

in The School of Hygiene and Public Health

Greg Roy Alexander, of Charleston, S.C.; B.S. College of Charleston, 1971; M.P.H. University of South Carolina, 1976. Maternal and Child Health.

Effects of Prenatal Care Utilization Within and Between Racial Subgroups on Measures of Infant Maturity at Delivery and Neonatal Mortality.

Eddie B. Beatty, of Pennington Gap, Va.; B.S. Kentucky State College, 1964; M.S. Howard University, 1966; M.D. Meharry Medical College, 1971; M.P.H. University of Michigan, 1974. Behavioral Sciences and Health Education.

Delay in Seeking Medical Care of Symptomatic Sexually Transmitted Disease Patients.

John Patrick Ehrenberg Enriquez, of Mexico City, Mexico; M.D. Universidad Nactional Autonoma de Mexico, 1977; Sc.M. London School of Hygiene and Tropical Medicine, 1978. Immunology and Infectious Diseases.

Identification and Characterization of Circulating Parasite Antigens in Dirofilaria Immitis Infected Dogs.

Richard Walter Freeman, of Baltimore, Md.; B.S. Cornell University, 1973; B.S. The Johns Hopkins University, 1975; M.P.H., 1978. Epidemiology.

A Survey of Neurologic Symptoms Among Members of the International Brotherhood of Painters and Allied Trades.

Kathleen Galbraith, of New York, N.Y.; B.S. Villanova University, 1971; M.S. University of Delaware, 1979. Maternal and Child Health.

Effects of Parental Cigarette Smoking on Respiratory Illness in Young Children.

Shuang-Yu N. Hsing, of Taipei, Taiwan; B.S. China Medical College, 1978; M.H.S. The Johns Hopkins University, 1982. Health Policy and Management.

A Resources Planning Model for Hospital Management.

Lorraine Bernadette Johnson, of Scranton, Pa.; B.S.N. University of Pennsylvania, 1970; M.A. Marywood College, 1976; M.P.H. The Johns Hopkins University, 1979. Health Policy and Management.

Determining Nursing Personnel Requirements in a Long-Term Care Facility for Aging Patients with Chronic Mental Disorders.

Karen Orloff Kaplan, of McLean, Va.; B.A. Goucher College, 1963; M.S.W. Ohio University, 1966; M.P.H. The Johns Hopkins University, 1976. Health Policy and Management.

A Study of the Impact of PSRO Medical Care Evaluation Studies.

James Lewis, of Chicago, Ill.; B.A. University of Pittsburgh, 1973; M.B.A. Northwestern University, 1974. Health Policy and Management.

Cost/Revenue/Volume Relationship Under Different Reimbursement Systems.

C. Alan Lyles, of Baltimore, Md.; B.A. Loyola College, 1972; B.S.Pharm. University of Maryland, 1980; M.P.H. The Johns Hopkins University, 1981. Health Policy and Management.

Investor-Ownership in Acute Psychiatric Hospitalization: Cost and Access Implications.

Leona Enama Markson, of Haverford, Pa.; B.S. Pennsylvania State University, 1979; M.H.S. The Johns Hopkins University, 1982. Health Policy and Management.

A Simulation Study of Huntington's Disease Onset.

T. K. Natarajan, of Baldwin, Md.; D.R.E. St. Xavier's College, 1956; B.E.S. The Johns Hopkins University, 1963; M.S.E.E., 1969. Environmental Health Sciences.

Measurement and Specification of Intrinsic Spatial Resolution for Gamma Ray Camera.

James Reed, of Baltimore, Md.; B.A. San Diego State College, 1957; M.P.H. University of California at Berkeley, 1963. Health Policy and Management.

Biochemical Discriminators of Alcohol Abuse.

Rima Evalin Rudd, of Auburndale, Mass.; B.A. Hunter College, 1963; M.S.P.H. University of Massachusetts, 1980. Behavioral Sciences and Health Education.

Consequences of Screening and Labelling for High Normal Blood Pressure in an Adolescent Population.

Rona Sayetta, of Washington, D.C.; B.S. Duke University, 1966; M.D. University of Maryland, 1981; M.P.H. The Johns Hopkins University, 1983. Mental Hygiene.

The Relationship of Anxiety and Serum Uric Acid: A Model of Psychosomatic Disease.

Larry Neil Scherzer, of New York, N.Y.; B.S. Rensselaer Polytechnic Institute, 1971; M.D. Albany Medical College of Union University, 1971; M.P.H. The Johns Hopkins University, 1977. Behavioral Sciences and Health Education.

The Physician as Ethicist: The Case of Amniocentesis for Prenatal Diagnosis.

Joseph Shane, of New York, N.Y.; B.S.S. City College of New York, 1948; M.Ed. Goucher College, 1969. Health Policy and Management.

Determinants of Career Choice and Place of Practice: A Profile of First Year Medical Residents.

Lee-Lan Yen, of Taipei, Taiwan; B.Ed. National Taiwan Normal University, 1971; M.P.H. National Taiwan University, 1973. Behavioral Sciences and Health Education.

A Behavioral Approach to Changing Sodium Intake Among High-Risk Adolescents in Taiwan.

Ellen Marie Zinzeleta, of Catonsville, Md. ;B.A. Shepherd College, 1981. Maternal and Child Health.

The Prediction of Mental Skill in School Age Children.

DOCTORS OF PHILOSOPHY

in The School of Advanced International Studies

Rafael S. Carel, of Tel-Aviv, Israel; M.D. Hebrew University, 1967; M.Sc. Drexel University, 1969; M.P.H. Hebrew University, 1979. Environmental Health Sciences.

Rate of Decline of Ventilatory Lung Function and the Factors Contributing to This Decline in a Group of Employed Israeli Men—A Longitudinal Study.

Teresita Torres Finlay, of Santiago, Philippines; B.S.N. University of Santo Tomas, 1960; M.P.H. Tulane University, 1966. Health Policy and Management.

Congruence of Basic Nursing Education and the Health Care Needs of Botswana.

Michael John Keane, of New York, N.Y.; B.S. St. Peter's College, 1964; M.H.S. The Johns Hopkins University, 1975. Health Policy and Management.

Correlates and Predictors of Physician Admitting Privileges and Practice Patterns.

Wilson Kisambira Kisubi, of Namakoba, Uganda; M.B.-Ch.B. Makerere University, 1971. Maternal and Child Health.

Infectious Diseases and the Growth of Intra-uterine Growth Retarded Infants in Guatemala.

Rudolf A.T.G. Knippenberg, of Amsterdam, Netherlands; M.D. State University at Utrecht, 1977; M.P.H. The Johns Hopkins University, 1981.

A Methodology for Monitoring and Evaluation of Coverage with Essential Primary Health Care Interventions.

Linda Sue Thompson, of Detroit, Mich.; B.S.N. Wayne State University, 1974; M.S.N., 1978; M.P.H. The Johns Hopkins University, 1985. Maternal and Child Health.

Health Compromising Behaviors and the Occurrence of Injury Among Rural Adolescents.

DOCTORS OF PUBLIC HEALTH

in The School of Hygiene and Public Health

Cheryl Heather Agris, of Arlington, Va.; B.A. Goucher College, 1979. Biochemistry.

Effects of Chemically Synthesized Oligodeoxyribonucleoside Methylphosphonates on Vesicular Stomatitis Virus Protein Synthesis and Infection.

Elias Aizenman-Stern, of Mexico City, Mexico; B.A. Boston University, 1981. Environmental Health Sciences.

Studies on the Mechanism of Anticholinesterase Induced Back-firing in Mammalian Motor Nerves.

Michael Balady, of Joppatowne, Md.; B.A. Rutgers University, 1972; M.S.P.H. University of Missouri, 1974. Immunology and Infectious Diseases.

Mechanisms of Resistance and Susceptibility in MHV-2.

Stephen Mallory Bowes, III, of Jacksonville, Fla.; B.S. U.S. Merchant Marine Academy, 1978; M.H.S. The Johns Hopkins University, 1981. Environmental Health Sciences.

Particle Deposition in the Mouth During Oro-nasal Breathing.

Patrick Nolan Breysse, of Seattle, Wash.; B.S. Washington State University, 1978; M.H.S. The Johns Hopkins University, 1980. Environmental Health Sciences.

Prediction of Activated Carbon Bed Service-Life Using the Dubinin/Wheeler Model.

Deborah Lynn Brimlow, of Beaumont, Texas; B.A. Lamar University, 1975; M.A. University of Houston, 1980. Behavioral Sciences and Health Education.

Psycho-Social Variables Associated with Recovery After Myocardial Infarction.

Lorraine Litwinski Cameron, of Wyandotte, Mich.; B.S. University of Michigan, 1974; M.P.H., 1976. Environmental Health Sciences.

Association of Senile Lens and Dermal Changes with Cumulative Ultraviolet Exposure.

Deborah Anne Dawson, of Washington, D.C.; B.A. University of Michigan, 1970; M.A. Georgetown University, 1975. Population Dynamics.

The Effects of Formal Sex Education on Adolescent Intercourse, Contraceptive Knowledge and Use and Pregnancy.

Virginia Jonas Dersch, of Baltimore, Md.; B.A. Goucher College, 1974. Behavioral Sciences and Health Education.

An Investigation of Social Support: Grandparents and Grandchildren Under the Stress of Parental Divorce.

Joanne F. Dorgan, of Baldwin, N.Y.; B.S. Cornell University, 1974; M.P.H. University of North Carolina, 1976. Epidemiology.

Case Control Study of Apparent Life-Threatening Apneic Episodes in Non-Hospitalized Infants.

William E. Fayerweather, of Ypsilanti, Mich.; B.S. University of Michigan, 1973; M.P.H., 1975. Epidemiology.

The Impact of Smoking Low-Tar Cigarettes on Pulmonary Function: A Study in the Dupont Company's Wilmington Office Building Employees.

Victoria L. Han, of Laurel, Md.; B.A. Goucher College, 1980. Immunology and Infectious Diseases.

Studies on the Immune Regulation of Murine Intestinal Goblet Cells.

Joseph Geraldo Jacangelo, of Fairfield, N.J.; B.A. Rutgers University, 1978. Environmental Health Sciences.

Mechanism of Microbial Inactivation by Monochloramine.

Jane McAnany Jacobson, of Shawnee Mission, Kans.; B.S.N. University of Kansas, 1976; M.P.H. The Johns Hopkins University, 1980. Environmental Health Sciences.

A Study of the Effects of Antioxidants and Antioxidant Enzymes on Oxygen-Induced Lung Injury.

Jeffrey Vaughn Johnson, of Minneapolis, Minn.; B.A. University of Minnesota, 1980. Behavioral Sciences and Health Education.

The Impact of Workplace Social Support, Job Demands and Work Control Upon Cardiovascular Disease in Sweden.

Sukon Kanchanaraksa, of Bangkok, Thailand; B.A. The Johns Hopkins University, 1977; M.H.S., 1979. Epidemiology.

Neonatal Apnea and Bradycardia as Predictors of Postneonatal Death in Low Birth Weight Infants Discharged from Neonatal Intensive Care Units.

Suzanne Kennedy-Stoskopf, of Nashville, Tenn.; B.S. Michigan State University, 1976; D.V.M., 1976. Immunology and Infectious Diseases.

Mechanisms of Neutralization of a Non-oncogenic Retrovirus Which Causes Slow Disease.

Muin Joseph Khoury, of Beirut, Lebanon; B.S. American University of Beirut, 1975; M.D., 1979. Epidemiology.

A Generalogic Study of Inbreeding and Prereproductive Mortality in the Old Order Amish.

Jonathan Harris Lebowitz, of New York, N.Y.; B.S. State University of New York, 1978. Biochemistry.

Biochemical Mechanisms of Strand Initiation in Bacteriophage Lambda DNA Replication.

Peter St. John Lees, of Baltimore, Md.; B.S. College of William and Mary, 1972. Environmental Health Sciences.

Factors Influencing Routes of Occupational Exposure to Polychlorinated Biphenyls (PCBs).

Leslie A. Leonard, of Seekonk, Mass.; B.A. Colby College, 1977. Immunology and Infectious Diseases.

A Search for Complement-like Activity in the Sea Star, ASTERIAS FORBESI.

Marilyn Menkes, of Ottawa, Ontario, Canada; B.A. University of British Columbia, 1965; M.S. University of Pennsylvania, 1967; M.H.S. The Johns Hopkins University, 1982. Epidemiology.

Vitamins A and E, Selenium, and Lung Cancer Risk.

Andre Ndikuyeze, of Fugi, Kigembe-Butare, Rwanda; B.B.H. Universite Nationale du Rwanda, 1975; M.D., 1978; M.P.H. The Johns Hopkins University, 1984. Epidemiology.

Immunogenicity and Safety of Measles Vaccine in Ill Children.

Rodrigo C. Oliveira, of Belo Horizonte, Brazil; M.S. Universidade Federal de Minas Gerais, 1980. Immunology and Infectious Diseases.

Genetic Analysis of Defects in the Immune Response of Inbred Mice to an Attenuated Vaccine Against SCHISTOSOMA MANSONI.

Catherine O'Connell, of Frederick, Md.; B.A. Rivier College, 1973. Immunology and Infectious Diseases.

The Human ERV3 Locus Contains a Full Length Retroviral Genome.

Kathryn M. Rost, of St. Louis, Mo.; B.S.N. St. Louis University, 1976. M.S.W. Washington University, 1981. Behavioral Sciences and Health Education.

Patient and Provider Anxiety in the Medical Visit: Consequences for Patient Satisfaction and Compliance.

Audrey Frieda Saftlas, of Silver Spring, Md.; B.A. Clark University, 1977; M.P.H. University of Michigan, 1979. Epidemiology.

Wolfe's Classification of Mammographic Parenchymal Patterns and Breast Cancer: A Case-Control Study.

Valentine Hixon Schaeffer, of Germantown, Md.; B.A. University of California at San Diego, 1973; M.S. University of California at Los Angeles, 1978. Environmental Health Sciences.

The Role of Cyclic AMP in Pulmonary Xenobiotic Metabolism with Special Emphasis on Benzo-[a]pyrene.

Susan Schober, of Baltimore, Md.; B.A. Indiana University, 1976. Epidemiology.

Vitamin A, Vitamin E, Selenium and Colon Cancer Risk.

Janet Lee Stanford, of Bremen, Ga.; B.S.N. Georgia State University, 1980; M.P.H. Emory University, 1982. Epidemiology.

A Study of Estrogen Receptors and Breast Cancer.

Daniel Jesse Sussman, of Lexington, Mass.; B.A. Brandeis University, 1979. Biochemistry.

The Introduction and Expression of Genes in Mammalian Cells.

Allison Lisa Tepper, of Somerset, N.J.; B.A. University of Pennsylvania, 1976; M.S. Rutgers University, 1978. Epidemiology.

A Follow-up Study of Chronic Respiratory Disease in Baltimore City Firefighters.

Alan Stephen Waldman, of Flushing, N.Y.; B.S. State University of New York at Albany, 1980. Biochemistry.

Molecular Analysis of Bacteriophage HP1c1 of Haemophilus Influenzae Rd.

Michael William Washabaugh, of Bay City, Mich.; B.S. University of Michigan, 1980. Biochemistry.

Studies on E. COLI *Dihydroorotase.*

William Frederick Wonderlin, of Carlock, Ill.; B.S. Illinois State University, 1978; M.A. Duke University, 1981. Environmental Health Sciences.

Regulation of Rabbit Visceral Sensory Excitability by Endogenous and Xenobiotic Substances.

DOCTORS OF PHILOSOPHY

in The School of Hygiene and Public Health

Ali A. Algayed, of Arlington, Va.; B.A. University of Libya, 1962; M.A. The Johns Hopkins University, 1974.

Legal Problems of the Financing of United Nations Peacekeeping Operations.

Jorge A. Lawton, of Washington, D.C.; B.A. Gonzaga University, 1967; M.A. The Johns Hopkins University, 1970.

The Search for Security through an Attitude of Control: An Analysis of Hegemony and Legitimation in Carter Administration Policy toward Nicaragua 1977-1979.

Gordon H. McCormick, of Santa Monica, Calif.; B.A. University of Wisconsin, 1975; M.A. The Johns Hopkins University, 1977.

Surrogate Forces and Soviet Foreign Policy.

Jennifer Sims, of Riverside, Conn.; B.A. Oberlin College, 1975; M.A. The Johns Hopkins University, 1978.

An Intellectual History of American Arms Control Thought 1945-1960.

Richard Wood Smith, of Annapolis, Md.; B.S. United States Naval Academy, 1951; M.A. Catholic University of America, 1962; M.S. George Washington University, 1973.

Military Intervention: Considerations for Modern Practitioners.

DOCTORS OF MEDICINE

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DOCTORS OF PHILOSOPHY

in The School of Medicine

Nancy Margaret Dahms, of Milwaukee, Wis.; B.S. Marquette University, 1980. Biochemistry, Cellular and Molecular Biology Program—Biological Chemistry.

Sulfated Glycoconjugates of Lymphocytes.

Kevin Lawrence Gardner, of Boundbrook, N.J.; B.S. Yale University, 1979. Biochemistry, Cellular and Molecular Biology Program—Cell Biology and Anatomy.

The Interaction of Calmodulin with the Erythrocyte Membrane and Membrane Skelton.

David Kevin Imagawa, of Rancho Palos Verdes, Calif.; B.S. Stanford University, 1980. Pharmacology and Experimental Therapeutics.

Consequences of Cell Membrane Attack by Complement: Release of Arachidonate and Formation of Its Oxygenated Metabolites.

Jonathan Allen Javitch, of Wayzata, Minn.; B.S. Stanford University, 1980; M.S., 1980. Pharmacology and Experimental Therapeutics.

Catecholamine Uptake Sites: Characterization, Localization and a Role in the Production of N-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine-Induced Parkinsonism.

Brian Lee Largent, of Owings Mills, Md.; B.S. Indiana State University, 1978. Pharmacology and Experimental Therapeutics.

Pharmacological and Autoradiographic Characterization of Sigma Receptors.

Hans Joaquim Prochaska, of Warren Township, N.J.; B.S. Rutgers University, 1981. Pharmacology and Experimental Therapeutics.

Studies on the Mechanisms of Chemical Protection Against Carcinogens and Mutagens.

Stephen Walter Rothwell, of Columbia, Md.; B.A. The Johns Hopkins University, 1975; M.A.S., 1980. Biochemistry, Cellular and Molecular Biology Program—Cell Biology and Anatomy.

A Study of the Dynamic Properties of Microtubules in vitro by Immunoelectron Microscopy.

Mark Edward Snow, of Los Altos, Calif.; B.A. University of California at Berkeley, 1981. Biochemistry, Cellular and Molecular Biology Program—Biophysics.

An Approach to Calculating the Structural Effect of Mutations on Surface Residues of Proteins: Theory and Application to the System of Immunoglobulins.

Stephen Mark Strittmatter, of Baltimore, Md.; B.A. Harvard University, 1980. Pharmacology and Experimental Therapeutics.

Angiotensin Converting Enzyme in the Brain, Testis, Epididymis, Pituitary Gland and Adrenal Gland.

Rosario Richard Trifiletti, of Park Ridge, N.J.; B.S. Seton Hall University, 1979. Pharmacology and Experimental Therapeutics.

A Biochemical Study of Multiple Drug Recognition Sites on Central Benzodiazepine Receptors.

Hung Tseng, of Beijing, China; B.A. Peking University, 1979. Biochemistry, Cellular and Molecular Biology and Genetics.

Studies of Simian Virus 40 Early Gene Regulation by T Antigen.

Victoria Ostrowski Ulrich, of Laurel, Md.; B.S. Loyola University of Chicago, 1973; M.S., 1976. Physiology.

Insulin-Sensitive Calcium Binding Proteins in Solubized Plasma Membranes of Rat Adipocytes.

Judith Weiss, of San Francisco, Calif.; B.A. University of California at Berkeley, 1979. Pharmacology and Experimental Therapeutics.

Characterization of Immunogenic Schistosoma mansoni Glycolipids and Glycoproteins.

Ronald J. Wides, of Baltimore, Md.; B.S. Massachusetts Institute of Technology, 1980; M.S., 1980. Biochemistry, Cellular and Molecular Biology Program—Molecular Biology and Genetics.

The Adenovirus Origin of DNA Replication: Sequence Requirements for Replication in vitro.

Jolene J. Windle, of Camarillo, Calif.; B.A. Pt. Loma College, 1979. Biochemistry, Cellular and Molecular Biology Program—Biological Chemistry.

Promoter and Enhancer Elements of the Xenopus Ribosomal RNA Gene.

Raimond L. Winslow, of St. Louis, Mo.; B.S. Worcester Polytechnic Institute, 1978. Biomedical Engineering.

A Quantitative Analysis of Rate-Coding in the Auditory-Nerve.

DOCTORS OF PHILOSOPHY

in The G.W.C. Whiting School of Engineering

Waris Ali, of Lahore, Pakistan; B.S. University of Engineering and Technology, Lehore, Pakistan, 1970; M.S. University of North Carolina at Chapel Hill, 1977. Geography and Environmental Engineering.

Chemical Aspects of Coagulation in Lakes.

Andreas Gregoriou Andreou, of Nicosia, Cyprus; Diploma of Tech. Engr. Higher Technical Institute, Cyprus, 1978; B.E. Council of Engineering Institutions, England, 1980; M.S.E. The Johns Hopkins University, 1982. Electrical Engineering and Computer Science.

The Hall Effect and Related Phenomena in Microelectronic Devices.

William Thomas Baumann, of Forest Hill, Md.; B.S. Lehigh University, 1978; M.S. Massachusetts Institute of Technology, 1980. Electrical Engineering and Computer Science.

Feedback Control of Nonlinear Systems by Extended Linearization.

Mohamed El-Said Bayoumi, of Cairo, Egypt; B.Sc. Arab Republic of Egypt, 1967; M.S.E. The Johns Hopkins University, 1983. Electrical Engineering and Computer Science.

Direct Detection Optical Communication with Color Coded Pulse Position Modulation Signaling.

Sanford Richard Buxbaum, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1979; M.S.E., 1982. Materials Science and Engineering.

Ultrasonic Evaluation of Crack Closure and Crack Extension in Compact Tension Specimens.

Yu-Chi Chang, of Keelung, Taiwan; Diploma in Chemical Engineering, Taipei Institute of Technology, 1971; M.S. Clarkson College of Technology, 1980. Chemical Engineering.

Experimental and Theoretical Studies on the Dissolution and Passivation of the Zinc Electrode in Alkaline Electrolyte.

Chin-Cheng Chen, of Baltimore, Md.; B.S.E. National Cheng Kung University, 1977; M.S.E., 1979. Chemical Engineering.

A Study of Photo-Induced Nucleation and its Underlying Reaction Mechanism.

Pen-Pong Chiang, of Baltimore, Md.; B.S. National Central University, 1976; M.S. National Taiwan University, 1978. Chemical Engineering.

A Kinetic Approach to Crystallization from Ionic Solution.

Dipa Sarkar Choudhury, of Dhaka, Bangladesh; B.Sc. Dacca University, 1975; M.Sc., 1976. Mathematical Sciences.

The Role of Complex Orthogonal Matrices in Matrix Factorizations.

Demetrios N. Christodoulides, of Nicosia, Cyprus; Diploma, Higher Technical Institute, Cyprus, 1979; M.S.E. The Johns Hopkins University, 1982. Electrical Engineering and Computer Science.

Solitary Waves in Optical Fibers.

Shyan-Lung Chung, of Miauli, Taiwan; B.S.E. National Cheng Kung University, 1977. Chemical Engineering.

The Counterflow Flame Burner: A New Tool for the Study of the Nucleation of Refractory Compounds.

Peter Louis Fuhr, of Perham, Minn.; B.S. Beloit College, 1979; M.S.E. The Johns Hopkins University, 1983. Electrical Engineering and Computer Science.

Free-Space Optical Communications Using Semiconductor Laser Diode Arrays.

Gordon Elliot Grant, of Corvallis, Ore.; B.A. University of Oregon, 1977. Geography and Environmental Engineering.

Downstream Effects of Timber Harvest Activities on the Channel and Valley Floor Morphology of Western Cascade Streams.

John Paul Gudas, of Annapolis, Md.; B.S. Purdue University, 1968. Materials Science and Engineering.

Micromechanisms of Fracture and Crack Arrest in Two High Strength Steels.

Miriam Heller, of Le Vesinet, France; B.S. University of Rochester, 1978. Geography and Environmental Engineering.

Location Optimization and Simulation for the Analysis of Emergency Medical Service Systems.

Kathleen Barbara Hogan, of Wallingford, Conn.; B.S. Bucknell University, 1978. Geography and Environmental Engineering.

The Development of Reservoir Operating Rules with Water Quality Objectives.

James Lewis Hohman, Jr., of Newark, Del.; B.S. Haverford College, 1980. Electrical Engineering and Computer Science.

Injection-Locking of Cavity-Dumped Flashlamp Pumped Dye Lasers.

Thomas Richard Hundt, of Cockeysville, Md.; B.S. Rutgers University, 1975; M.S., 1977. Geography and Environmental Engineering.

The Removal of Fulvic Acid Using Aluminum Coagulants: Mechanisms and Applications.

Robert Bruce Jacobson, of Byron, Ill.; B.A. Carleton College, 1979. Geography and Environmental Engineering.

Spatial and Temporal Distributions of Slope Processes in the Upper Buffalo Creek Drainage Basin, Marion County, West Virginia.

Sally Minch Kane, of Baltimore, Md.; B.S. Dickinson College, 1977; M.S. University of Maryland, 1979. Geography and Environmental Engineering.

Monopsony and the Performance of Hardwood Stumpage Markets.

Choon-Ho Kim, of Seoul, Korea; B.A. Sogang University, 1981; M.S.E. The Johns Hopkins University, 1985. Chemical Engineering.

High Pressure Vapor-Liquid Equilibrium Measurements and a New Equation of State: The Simplified Perturbed-Hard-Chain Theory.

Michele Lynne Le Faivre, of Baltimore, Md.; B.S. Towson State University, 1976; M.S. The Johns Hopkins University, 1980. Geography and Environmental Engineering.

Representing the City: Daniel Hudson Burnham and the Making of an Urban Strategy.

Huey-Miin Lee, of Lexington Park, Md.; B.Sc. National Taiwan Normal University, 1976. Mathematical Sciences.

Gain/Variability Tradeoffs in Markovian Decision Processes and Related Problems.

Joo-Jin Lee, of Seoul, Korea; B.S.E. Seoul National University, 1975; M.S.E., The Johns Hopkins University, 1984. Mechanical Engineering.

A Study of Short Fatigue Crack Behavior in Notched 2024-T3 Aluminum Specimens.

Gerald Michael MacDonald, of Baltimore, Md.; B.A. State University of New York at Albany, 1979. Geography and Environmental Engineering.

Politics and Public Works: Baltimore before Progressivism.

Martin Neil Raftenberg, of Baltimore, Md.; B.E. State University of New York at Stony Brook, 1972; M.S.E. University of Michigan, 1974. Mechanics and Materials Science.

A Model for Micromechanics of the Inner Ear.

Alan Groves Robinson, of Wilmington, Del.; B.A. Cambridge University, England, 1980; M.S.E. The Johns Hopkins University, 1983. Mathematical Sciences.

The Isolation Game and its Generalization.

Mehrdad Soltani, of Tehran, Iran; B.S. North Carolina Agricultural and Technical State University, 1980; M.S. Virginia Polytechnic Institute and State University, 1982. Civil Engineering.

Reliability of Random Systems and Failure Cost Design.

Kathleen Sullivan, of Dover, Del.; B.S. University of Idaho, 1976. Geography and Environmental Engineering.

Hydraulics and Fish Habitat in Relation to Channel Morphology.

Gary Douglas Tasker, of Reston, Va.; B.C.E. Georgia Institute of Technology, 1966; M.S.E. The Johns Hopkins University, 1981. Geography and Environmental Engineering.

Analysis of Streamflow Data Networks for Regional Information Using GLS Regression.

Morgan Jones Thoma, of Allentown, Pa.; B.S. Lehigh University, 1981. Electrical Engineering and Computer Science.

New Techniques to Determine MOSFET Constants and Harmonic Distortion in MOS Circuits.

Pannalal Vimalchand, of Madras, India; B.T. University of Madras, 1977; M.S. Clarkson College of Technology, 1980. Chemical Engineering.

Thermodynamics of Multi-polar Molecules: The Perturbed-Anisotropic-Chain Theory.

Michael Dean Walker, of Columbus, Ohio; B.S. University of Virginia, 1971; M.S., 1973. Mechanics and Materials Science.

Laser Doppler Measurement of Grid Turbulence in a Box.

Zhishi Wang, of Dao Li Harbin, China; M.S. Harbin Agricultural and Civil Engineering Institute, 1982. Geography and Environmental Engineering.

Chemical Aspects of Deep Bed Filtration.

Che-Liang Yang, of Tainan, Taiwan; B.S. National Chiao Tung University, 1979. Electrical Engineering and Computer Science.

Fault Identification and Isolation in Multiprocessor Systems.

Bofu Yu, of Beijing, China; Diploma, Peking University, 1982. Geography and Environmental Engineering.

Studies of Hyperconcentration in Rivers and Dynamic Aspects of River Geometry.

Zhongping Zhu, of Shanghai, China; Master's degree Tsinghua University, 1982. Geography and Environmental Engineering.

A Siting and Allocation for Environmental Facilities. Facilities.

David Michael Zucker, of Baltimore, Md.; B.A. The Johns Hopkins University, 1980; M.A., 1981. Mathematical Sciences.

Survival Data Regression Analysis with Time-Dependent Covarite Effects.

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Sources on Non-Equivalence Between Computerized and Conventional Psychological Tests.

Susan MacMillan Arensberg, of Boston, Mass.; B.A. Smith College, 1969; M.A. New York University, 1971. History of Art.

The Padua Bible and the Late Medieval Biblical Picture Book.

Jay Martin Baltz, of Philadelphia, Pa.; B.A. University of Pennsylvania, 1978. Biophysics.

Measurement and Calculation of the Forces Necessary to Hold a Motile Human Sperm; Implications for the Interactions Between the Sperm and the Zona Pellucida.

Karen-edis Barzman, of Orno, Me.; B.A. New York University, 1978. History of Art.

The Florentine Compagnia, Accademia, ed Universita del Disegno.

Joseph Michael Beechem, of Covington, Ky.; B.S. Northern Kentucky University, 1981. Biology.

Global Analysis of Multidimensional Fluorescence Decay Surfaces.

Genevieve Belanger, of Montreal, Canada; B.E. Ecole Polytechnique, 1980; M.A. The Johns Hopkins University, 1981. Physics and Astronomy.

New Vector Bosons in Electroweak Interaction.

Jon Kirtland Borowicz, of Cedarburg, Wis.; B.A. University of Wisconsin at Madison, 1975; M.A. The Johns Hopkins University, 1979. Philosophy.

Beneficence and Decision Making in the Treatment of Meningomyelocele.

Charles Wayne Bowers, of Baltimore, Md.; B.A. The Johns Hopkins University, 1972; M.S., 1977. Physics and Astronomy.

Spectroscopy of the Far and Extreme Ultraviolet Dayglow.

Eliot Michael Burka, of Washington, D.C.; B.A. University of Pennsylvania, 1979; M.A. The Johns Hopkins University, 1981. Physics.

A Study of Resonance Production in Antiproton-Proton Annihilation into Pianos at 8.3 and 13.0 GeV/c.

Nadeem Akhtar Burney, of Rawalpindi, Pakistan; B.Sc. University of the Punjab, 1974; M.Sc. Quaid-i-Azam University, 1977. Political Economy.

International Capital Movements and Welfare in the Presence of External Economies of Scale.

Kathleen Mary Butler, of Birmingham, England; B.A. Corpus Christi State University, 1979; M.A. The Johns Hopkins University, 1982. History.

Slave Compensation and Property: Jamaica and Barbados, 1823-1843.

Richard Anthony Cardullo, of Boston, Mass.; M.S. University of Massachusetts, 1981. Biophysics.

Oxygen Metabolism, Motility, and the Maintenance of Viability of Caudal Epididymal Rat Sperm.

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An Analysis of the Effects of DNA Methylation on Gene Expression in Cultured Mouse Cells.

Timothy Eugene Cleveland, of Amarillo, Texas; B.A. Hardin-Simmons University, 1981; M.A. The Johns Hopkins Univeristy, 1983. Philosophy.

Acting, Willing, and Trying.

James Vernon Coe, of Chester, Pa.; B.A. Swarthmore College, 1980. Chemistry.

Photoelectron Spectroscopy of Negative Cluster Ions.

Thomas David Cornell, of Rochester, N.Y.; B.A. Southwestern at Memphis, 1974; M.S. Georgia Institute of Technology, 1977. History of Science.

Merle A. Tuve and His Program of Nuclear Studies at the Department of Terrestrial Magnetism: The Early Career of a Modern American Physicist.

Jeffrey Albert Cynx, of Catalina Island, Calif.; B.A. St. John's College, 1973; M.A. The Johns Hopkins University, 1983. Psychology.

Spectral and Periodicity Pitch Perception in a Songbird (Sturnas Vulgaris).

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Aflatoxin B Biosynthesis.

James Gregory Dees, of Cincinnati, Ohio; B.A. University of Cincinnati, 1972; M.A. The Johns Hopkins University, 1976. Philosophy.

Coercive Offers: A Study of the Nature and Ethics of Coercion.

Fanny Saul Demers, of Ottawa, Canada; B.A. University of the Bosphorous at Istanbul, 1975; M.B.A. McGill University, 1977; M.A. The Johns Hopkins University, 1982. Political Economy.

Bayesian Learning as a Propagating Mechanism in a Dynamic General Equilibrium Model of Business Cycles.

Michel Demers, of Ottawa, Canada; Diploma, Bois-de-Boulogne College, 1972; B.A. McGill University, 1975; M.A., 1981; M.A. The Johns Hopkins University, 1982. Political Economy.

Essays in the Economics of Uncertainty.

Thomas Holland Dial, of Cullman, Ala.; B.A. University of Alabama, 1975. Sociology.

Status Attainment in the Heroin Subculture: A Test of the Prison Learning Hypothesis.

Frederic Andrew Diegel, Jr., of Abingdon, Pa.; M.A. The Johns Hopkins University, 1985. Earth and Planetary Sciences.

Geometry of Imbricate Thrusting in the Mountain City Window, Tennessee.

Joseph Dominic Falvo, of Strongoli, Italy; B.A. Loyola University, 1974; M.A. Catholic University of America, 1977; M.A., 1979; M.A. The Johns Hopkins University, 1985. Hispanic and Italian Studies.

The Economy of Human Relations in Castiglione's Libro del Cortegiano.

Daniel Douglas Frye, of Charlottesville, Va.; B.A. University of Idaho, 1979; M.A. The Johns Hopkins University, 1981. Physics and Astronomy.

The Louisville-Dirac-Fock and Complex-Rotated Hartree-Fock Theories in Atomic Structure Calculations.

Susannah Gal, of Kalamazoo, Mich. Biology.

The Major Glycoprotein Secreted by Transformed Mouse Cells in a Novel Lysosomal Acid Protease.

Stephen Garrett, of Frederick, Md;. B.Sc. University of Western Ontario, 1978. Biology.

Genetic Studies on the Synthesis of the Major Outer Membrane Porin Proteins of E. coli K12.

Sigurour Reynir Gislason, of Reykiavik, Iceland; B.S. University of Iceland, 1980. Earth and Planetary Sciences.

Meteoric Water-Basalt Interactions: Field and Laboratory Study.

Barry Eckman Goldfarb, of Baltimore, Md.; B.A. Yale University, 1975; M.A. University of Chicago, 1978. Classics.

Plato's Gorgias and the Drama of the Philosophical life.

Christopher Holliday Goldman, of Red Lion, Pa.; B.A. Albright College, 1969; M.A. Georgetown University, 1973. Political Science.

Politics, Bureaucracy and Rural Development in Lesotho.

Thomas Fraser Grieve, of Kelowna, Canada; B.A. Simon Fraser University, 1970; M.A., 1974. English.

Displacing the Self: The Progress of Ezra Pound's Pre-Cantos Poetics.

Frank Rock Gunter, of Allentown, Pa.; M.A. The Johns Hopkins University, 1979. Political Economy.

U.S. Bank Foreign Lending.

John Christopher Haley, of Casper, Wyo.; M.A. The Johns Hopkins University, 1984. Earth and Planetary Sciences.

Upper Cretaceous (Beaverhead) Synorogenic Sediments of the Montana-Idaho Thrust Belt: Relationships Between Sedimentation and Tectonism.

Marilyn Emily Hawley, of Chicago, Ill.; B.S. The Johns Hopkins University, 1971; M.A., 1973. Chemistry.

Design and Assembly of a Low Temperature Vacuum Tunneling Apparatus and Preliminary Measurements of the Energy Gap of an Organic Superconconductor.

Samuel Pastor Hernandez-Rivera, of Mayaguez, Puerto Rico; B.S. University of Puerto Rico, 1974; M.A. The Johns Hopkins University, 1982. Chemistry.

Rotational Transitions in the Ionization-Excitation of Supersonic Molecular Nitrogen Beams by Electron Impact Induced Fluorescence and Comparison of Absolute Photoelectron Fluxes Measured on Atmosphere Explorer-C and Atmosphere Explorer-E Satellites with Theoretical Fluxes and Predicted and Measured Molecular Nitrogen Second Positive Group Volume Emission Rates at 3371 Angstroms.

Robert Allan Horlick, of Cheverly, Md.; B.S. University of Maryland, 1978. Biology.

Isolation and Characterization of the Chicken Muscel Pyruvate Kinase Gene.

Bruce James Hrnjez, of Norfolk, Va.; M.A. The Johns Hopkins University, 1985. Chemistry.

Synthetic Approaches to Macrobicyclic Allenes and Alkenes.

Andrew Philip Jephcoat, of Bimingham, England; M.A. The Johns Hopkins University, 1984. Earth and Planetary Sciences.

Hydrostatic Compression Studies on Iron and Pyrite to High Pressure: The Composition of the Earth's Core and the Equation of State of Solid Argon.

Joseph Jucewicz, of South River, N.J.; B.A. Connecticut College, 1976. Political Science.

Voting and Abstention in Presidential Elections: A Simulation Model of Individual Vote Choice.

Joanne Baetzhold Kean, of Buffalo, N.Y.; B.A. Canisius College, 1979; M.A. The Johns Hopkins University, 1985. Chemistry.

Structure of the Central Domain of 16 S Ribosomal RNA.

Jack Lloyd Komisar, of San Antonio, Texas; B.S. University of Hartford, 1972; M.A., 1976. Biology.

Studies of the Murine Immune Response to Bacterial Lipopolysaccharide.

Frederick Mark Kronz, of Austin, Texas; B.S. University of Pittsburgh, 1978. Philosophy.

A Critical Survey of the Problem of Measurement in Quantum Mechanics.

Rita Petti Landers, of College Park, Md.; Doctorate in Literature, University Degli Studi Di Firenze, 1970; Diploma in Hispanic Studies, University of Oveido, 1972; M.A. The Johns Hopkins University, 1979. Hispanic and Italian Studies.

Las lagrimas de Angelica de Luis Barahona de Soto: Estructura, Tecnica Narrativa, Fuentesy Estilo.

Susan Elizabeth Lawrence, of St. Louis, Mo.; B.A. Furman University, 1979; M.A. The Johns Hopkins University, 1982. Political Science.

The Poor in Court: The Legal Impact of Expanded Access.

Nanette Christine Le Coat, of Pasadena, Calif.; B.A. University of Washington, 1971; M.A., 1972. French.

Neither Fable nor Science: Volney's Writings on Travel and History.

Frederick David Levenbach, of State University, Ark.; B.A. Franklin and Marshall, 1974; M.A. The Johns Hopkins University, 1977. Political Science.

Bureaucratic Behavior in Project Appraisal and Selection: The Economic Development Administration.

Carol Ann Lisek, of Baltimore, Md.; B.A. Towson State University, 1977; M.A. The Johns Hopkins University, 1981. Chemistry.

Structural Elucidation of a Hydroxylated Metabolite of Thalidomidei Evidence Supporting and Arene oxide Intermediate.

Cheryl Eileen Lopes, of Providence, R.I.; M.A. The Johns Hopkins University, 1982. Psychology.

Attributions of Casual and Recovery Responsibility among Self-Help Group Members.

Shu-Bin Lu, of Manyang, Taiwan; B.Sc. National Taiwan Normal University, 1969; M.S. National Taiwan University, 1976. Chemistry.

Synthesis of Carbocycles: Sequential Michael-Michael-Ring Closure (MIMIRC) Reactions for One-pot, three component, 2+2+2 Construction .of Six-membered Cylic Compounds.

Joan Rosensweig Lucco, of New Britain, Conn.; B.A. Brown University, 1959; M.A. University of Chicago, 1960; M.A. The Johns Hopkins University, 1982. Political Science.

Roles of Interest Group Representatives at the White House: Staff for Consumer Units in the Modern Presidency from John F. Kennedy to Jimmy Carter.

Paul Braddock Lukacs, of Baltimore, Md.; B.A. Kenyon College, 1978; M.A. The Johns Hopkins University, 1980. English.

Against the Current: Historical Perspective in Ante-Bellum American Fiction.

Yutaka Matsui, of Baltimore, Md.; M.A. Nagoya University, 1978; M.A. The Johns Hopkins University, 1981. Physics and Astronomy.

X-Ray and Radio Images of Four Supernova Remnants with Three Distinct X-Ray Signatures.

Dimitrios Vasilios Mavrophilipos, of Baltimore, Md.; B.A. The Johns Hopkins University, 1982; M.A., 1982. Chemistry.

Characterization of the Iron Environment of Lipoxygenases.

Judith Ann McKenna, of Baltimore, Md.; B.A. Seton Hill College, 1976. Psychology.

Expert Psychological Testimony on Eyewitness Performance: A Critical Evaluation.

David Brooks McKinney, of Geneva, N.Y.; B.S. Beloit College, 1975. Earth and Planetary Sciences.

Origin of Comb Layered and Orbicular Rocks near Fisher Lake, California.

Albert Stanley Meiburg, of Louisville, Ky.; B.A. Wake Forest University, 1975; M.A. The Johns Hopkins University, 1977. Political Science.

Protect and Enhance: Lori's Juridical Democracy and the Prevention of Significant Deteioration of Air Quality.

Charles Edward Montague, of Baltimore, Md.; B.S. Lehigh University, 1974. Biophysics.

A Study of the Polydispersity of F-actin by Photon Correlation Spectroscopy: Including an Extension of the Expotential Sampling Method to Rigid Rods.

Patricia Lane Natalicchi, of Orlando, Fla.; B.A. Mary Washington College, 1964; M.S. Drexel University, 1965; M.A. Middlebury College, 1971; M.A. The Johns Hopkins University, 1977. Hispanic and Italian Studies.

Woman as Hero: The Legend of Gaspara Stampa.

Jesse Marcus Noland, of Houston, Texas; B.A. Swarthmore College, 1981; M.A. The Johns Hopkins University, 1983. Political Economy.

The Determinants of Comparative Advantage: Empirical Analysis in a Multicountry Time-Series Cross-Section Framework.

Kathy Jo Ogren, of Denver, Colo.; B.A. Scripps College, 1977; M.A. The Johns Hopkins University, 1979. History.

Performance Crossroads: The Significance of the Jazz Controversy for Twenties America.

Ercument Hasan Ortacgil, of Istanbul, Turkey; B.Sc. Middle East Technical University, 1978; M.A. The Johns Hopkins University, 1982. Mathematics.

On Growth of Entire Holomorphic Mappings.

Chwee-huay Ow, of Singapore, Singapore; B.A. University of Singapore, 1969; M.S., 1976; M.A. The Johns Hopkins University, 1982. Political Economy.

The Currency Board Monetary System—The Case of Singapore and Hong Kong.

Roland Arvel Owens, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1979. Biology.

Glutathione: An Intracellular and Extracellular Protective Agent in Salmonella Typhimurium and Escherichia Coli.

Susan Marie Parkhurst, of Baltimore, Md.; B.A. The Johns Hopkins University, 1982. Biology.

Interactions between Forked, Yellow, Gypsys, and Suppressors in Drosophila.

Evelyn Hester Perry, of Jacksonville, Fla.; B.A. Wellesley College, 1967. Near Eastern Studies.

The Complaints of an Eloquent Peasant.

Erich Stanley Phillips, of Albany, Calif.; B.S. University of Michigan, 1979. Biophysics.

Cytoplasmic Diffusion in the Retinal Rod Photoreceptor: Its Measurement and Role in Limiting the Speed of the Photoresponse.

Kimberly Andrea Quaid, of Baltimore, Md.; B.A. Brown University, 1977; M.A. The Johns Hopkins University, 1982. Psychology.

Informed Consent: The Effects of Disclosure for a Prescription Drug on Patient's Knowledge, Beliefs and Response to Treatment.

William Calvin Rice, Jr., of Blue Ridge Summit, Pa.; B.A. Towson State University, 1968; M.A. The Johns Hopkins University, 1972. History.

The Uncertain Alliance: A Study of the German Foreign Ministry Liaison Staff at General Headquarters during the First World War.

Margaret Maher Robinson, of Baltimore, Md.; M.A. The Johns Hopkins University, 1982. Mathematics.

On the Complex Powers Associated with the Twisted Cases of the Determinant and the Pfawan.

Richard Michael Rohan, of Pasadena, Calif.; B.A. University of California at Irvine, 1977. Biology.

A Genetic Analysis of the Adenoviral Va Gene Promoter.

Ellen Frances Rooney, of New York, N.Y.; B.A. Wesleyan University, 1979; M.A. The Johns Hopkins University, 1982. English.

At the Limits of Pluralism: Constructing the Problematic of American Literary Theory.

Lisa Rosner, of Minneapolis, Minn.; B.A. Princeton University, 1979. History of Science.

Students and Apprentices: Medical Education at Edinburgh University, 1760-1810.

Deborah Susan Rubin, of Mountain View, Calif.; B.A. Brown University, 1975; M.A. The Johns Hopkins University, 1984. Anthropology.

People of Good Heart: Rural Response to Economic Crisis in Tanzania.

M. Rups, of Fairfax, Va.; B.A. College of William and Mary, 1972; M.A. The Johns Hopkins University, 1973. Classics.

Thesauros: A Study of the Treasury Building as Found in Greek Sanctuaries.

Geoffrey Norman Sapir, of North Miami Beach, Fla.; B.S. University of Florida, 1979; M.A. The Johns Hopkins University, 1979. Physics and Astronomy.

Magnetic and Electrical Properties of Sputtered Palladium-Iron Thin Films.

David Carl Scharf, of Normal, Ill.; B.A. University of Maryland, 1976; M.A. The Johns Hopkins University, 1982. Philosophy.

Quantum Mechanics and the Program for the Unity of Science.

Carl Joseph Schmidt, of Brookline, Mass. Biology.

Human Metallothionein Genes: Structure, Expression and Regulation.

Clifford William Schweinfest, of Baltimore, Md.; B.A. The Johns Hopkins University, 1976. Biology.

The Molecular Genetics of Creatine Kinase M.

Claudia Winn Sieber, of Baltimore, Md.; B.A. Baylor University, 1962; M.A. The Johns Hopkins University, 1978. History.

The Invention of a Capital: Philip II and the First Reform of Madrid.

Jeffrey David Skoblow, of Los Angeles, Calif.; B.A. State University of New York at Purchase, 1976; M.A. The Johns Hopkins University, 1979. English.

Forgetting and Remembering: William Morris and the Earthly Paradise.

Judy Ann Small, of Massena, N.Y.; B.S. Siena College, 1980. Biology.

An Analysis of Transgenic Mice Containing Papovavirus Early Region Genes.

Lauren Cohen Small, of St. Louis, Mo.; M.A. The Johns Hopkins University, 1980; M.A., 1981. Humanities.

The Case of Thomas Mann's Joseph undseine Bruder: An Essay in German-Jewish Cultural Assimilation.

Edward George Spack, Jr., of Baltimore, Md.; B.S. Muhlenberg College, 1976. Biology.

Major Histocompatibility Complex Antigens of Marine Erythrocytes.

Janet Ellen Steele, of New York, N.Y.; M.A. The Johns Hopkins University, 1981. History.

From Paradise to Park Row: The Life, Opinions, and Newspapers of Charles A. Dana, 1819-1897.

Larry Wilcox Stults, of Waldwick, N.J.; B.A. New College, 1980. Biology.

The Role of Nickel in Membrane-Bound Hydrogenase and Nickel Metabolism in Rhizobium japonicum.

Patricia Torres-Mejia, of Mexico City, Mexico; M.A. The Johns Hopkins University, 1984. Anthropology.

Before Smoking: Social Relations Involved in Tobacco Production in a Philippine Setting.

Stanley Wilson Tozer, of Croton-on-Hudson, N.Y.; B.A. Carleton College, 1979. Chemistry.

High Pressure Electrical Transport Studies of Several Organic Charge Transfer Salts.

Cynthia Gayle Tudor, of Macon, Ga.; B.A. Georgia State University, 1973; M.A., 1979. Sociology.

Sex Differences in the Use of Nonpsychiatric Services in a Health Maintenance Organization Setting: A Test of the Impact of Social Roles, Illness Level, and Propensity to Seek Care.

Michael David Warner, of Evanston, Ill.; B.A. Oral Roberts University, 1979; M.A. The Johns Hopkins University, 1983. English.

The Letters of the Republic: Literature and Print in Republican America.

Ellen Andrea White, of Sea Bright, N.J.; B.A. University of North Carolina at Chapel Hill, 1980; M.A. The Johns Hopkins University, 1982. Psychology.

Phonological Processing in the Comprehension of Written Words and Sentences.

Michael Warren Wolfe, of Sarasota, Fla.; B.A. Boston University, 1979; M.A. The Johns Hopkins University, 1982. History.

The Conversion of Henri IV, King of France (1584-1595).

Lu Zhang, of Baltimore, Md.; M.A. The Johns Hopkins University, 1982. Physics and Astronomy.

Magnetic Surface Anisotropy of Amorphous Fe-B Ultrathin Films.

The Johns Hopkins University • Homewood Campus • Baltimore, Maryland 21218

Office of The Registrar
75 Garland Hall

July 16, 1986

For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 1986 Commencement Program:

1. Bachelors of Arts (Arts and Sciences)

   Add: Thomas Jay Montanaro, of Old Lyme, Conn.

   Delete: Herman Ayayo, Wayne Creadick, John Cummings, Emily De Coster, Susan Ellis, John Ghikas, Helena G. Harvilicz, Richard Hoheb, Adrienne Holmes, Scott Kamber, Helen Lynch, Sungmin Park, Christine Ritchie, Elizabeth Rosen, Maureen Shea, Hernan Silva, David Wilson, Takashi Yamada, Axel Yuo

2. Bachelors of Science in Biomedical Engineering (Engineering)

   Delete: Vernon W.L. Huang

3. Bachelors of Science in Chemical Engineering (Engineering)

   Delete: David Wayne Donnick

4. Bachelors of Science in Electrical Engineering (Engineering)

   Delete: Anthony Steven Aquilino, Song Chin Hong, Joseph M. Kwiatkowski, Syed Abbas Raza

5. Bachelors of Science in Mathematical Sciences (Engineering)

   Delete: Peter Christopher Mitchell

6. Bachelors of Arts (Engineering)

   Add: Anthony Steven Aquilino

7. Bachelors of Electrical Engineering (Engineering)

Delete: Jean Denise Gaylord-Person

8. Bachelors of Mechanical Engineering (Engineering)

Delete: Steven Raymond Cover

9. Bachelors of Music (Peabody Conservatory)

Delete: Peter A. Kates David J.R. Meaux

10. Associates of Science (Continuing Studies)

Delete: George Charles Gummer

11. Masters of Science (Continuing Studies)

Delete: John Jaye Burkhardt
Michele E. Dilegge
Lois J. Emershaw-Machinist
Penny Ortel Friesland
Susan Marie Geiger
Margaret Mary McNally
Joan N. Miller
Sally Ann Miller
Susan R. Schiaffino
Sharon B. Schwartz
Melody G. Young

12. Masters of Liberal Arts (Continuing Studies)

Delete: Karen Mary Slockbower

13. Masters of Administrative Science (Continuing Studies)

Delete: Louis Alan Naviasky Debra C. Watkins

14. Masters of Music (Peabody Conservatory)

Add: Karl Christopher Richter, of Bogota, Colombia; B.M. Peabody Conservatory of Music, 1985. Violin.

Delete: Barteld Douwe Bosma Bok Hwa Kim

15. Masters of Health Science (Hygiene and Public Health)

Delete: Lyle Richard Edinger
Andrew A. Vernon

16. Masters of Public Health (Hygiene and Public Health)

Add: Dittmer Frederic Alan, of Severn, Md.; B.A. Stanford University, 1956; M.D., 1959.

17. Masters of International Public Policy (Advanced International Studies)

Add: Mahmud Abdullah, of Lagos, Nigeria; B.S. University of Maryland, 1984.

Jose Luis de la Pena, of Madrid, Spain; Law degree, University of Madrid, 1971.

Delete: Mariam Abdel Karim Al-Awardi
Halidou Garga
Melvin Geiger
Suyoi Haji Osman
John B. Mallon
Caryle M. Murphy
Bernice Williams

18. Masters of Arts in International Affairs (Advanced International Studies)

Add: Paul V. Dionne, of Montreal, Quebec; B.A. Princeton University, 1979.

Delete: Francesco Maria Castiglioni
Peter Edel
George Dimitri Koulermos
Giuseppe Nesi
Christopher Dimitri New
Katlyn Saba
Laura Sipala

19. Masters of Arts (Advanced International Studies)

Add: Jeremy Francis John Bowen, of Cyncoed, Cardiff, U.K.; B.A. University College, London, 1982.

Delete:
Hauwa Akilu
Khaled Ismail Al-Akwaa
Dana Hansen Allin
Mark Steven Andersen
Joan M. Anway
Beverly G. Baker-Kelly
Patricia Bergeron
Christina Bergfalk
Gwen A. Bondi
Michael Boster

Masters of Arts. SAIS (continued)

Michael Braswell
Randy Burdette Cheek
Carole Isabel Choukroun
David Colton
Marynell DeVaughn
Stacy Maria Dutton
Tanaa M. Frederic
Amjad Ali Khan Ghori
Patricia M. Hahn
Kay Lasta Halpern
Alan Hoffman
Joanna Theresa Horsfall
Bruce Pitcairn Jackson
Kai Li Jen
Young Chul Kim
Tetsuo Kojima
Jesper Jan Wilhelm Koll
Chikako Kuno
Margaret R. Leddy
C. Margel Lindzey
Pyramyth Hong Tu Liu
John Duncan Moore, Jr.
Jennifer T. Muratore
Suzanne Elizabeth Nagle
Atta Owusu Ansah
Ann G. Pluemer
Barbara D. Ranagan
Frank M. Smyth
Stephen R. Stern
Joan Timoney
Takashi Uchida
William J. Valdez
Peter Vrecar
Edward Wilkes Walker
Karsten Warnecke
William Oscar Wendlandt II
Jennifer Jarvis White

20. Masters of Science (Engineering)

Add: Yen-Wu Chen, of Silver Spring, Md.; M.S. Eastern Michigan University, 1979. Computer Science.

Richard Scott Johannes, of Baltimore, Md.; B.A. University of Wisconsin, 1968. Computer Science.

Delete: Michael Tak Chen
Kevin Edward LeRow
Theodore Price Shertzer

21. Masters of Arts (Arts and Sciences)

Delete: Reiner Ansen
Pamela Elizabeth Hinkle
Li-Shing Wang

22. Doctors of Philosophy (School of Medicine)

Add: Clifford Arthur Lowell, of Modesto, Calif; B.S. Stanford University, 1979. Biochemistry, Cellular, and Molecular Biology Program - Molecular Biology and Genetics.

Mark Steven Schlissel, of Old Bridge, N.J.; B.A. Princeton University, 1979. Biochemistry, Cellular, and Molecular Biology Program - Biological Chemistry.

23. The headings designating the degrees awarded to three groups of students were accidently reversed during the printing of the program:

Students listed on page 81 as receiving the Doctor of Philosophy degree from the School of Advanced International Studies actually received the degree of Doctor of Public Health from the School of Hygiene and Public Health.

Students also listed on page 81 as receiving the degree of Doctor of Public Health from the School of Hygiene and Public Health actually received the degree of Doctor of Philosophy from the School of Hygiene and Public Health.

Students listed on page 83 as receiving the Doctor of Philosophy degree from the School of Hygiene and Public Health actually received their degrees from the School of Advanced International Studies.

To correct this printing error we have attached errata sheets for insertion in your copy of the program.